

Review UI

Version 2.15.3-4589-Ge6e891f4cc | [Privacy](#) ([Https://Policies.Google.Com/Privacy](https://policies.google.com/privacy))

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New Review UI vs. Old Review UI

Reviewing changes is an important task and the Gerrit Web UI provides many functionalities to make the review process comfortable and efficient. This is a guide through the review UI that explains the different functions and UI elements.

Change Screen

The change screen shows the details of a single change and provides various actions on it.

Commit Message Block

The focus of the change screen is on the commit message since this is the most important information about a change. The numeric change ID and the change status are displayed right above the commit message.

The numeric change ID is a link to the change and clicking on it refreshes the change screen. By copying the link location you can get the permalink of the change.

The screenshot shows the Gerrit web interface for a code review. The top navigation bar includes 'Edit Message', 'Reply...', 'related changes', 'load ▾', and 'Search'. The main area displays a commit message for change 55060, which has a status of 'Needs Code-Review'. The commit message details include the author (David Pursehouse), committer (David Pursehouse), and various git log entries. Below the commit message is a 'Files' section with a 'Diff against: Base' dropdown and a 'File Path' table. The table has columns for 'Comments' and 'Size', showing a green progress bar for each file. At the bottom is a 'History' section with a 'Expand All' button. On the right side, there's a sidebar with 'Owner' (David Pursehouse), 'Reviewers' (Diffy Cuckoo, Dave Borowitz, Edwin Kempin), 'Project' (gerrit), 'Branch' (master), 'Topic' (gitiles), 'Strategy' (Merge if Necessary), and 'Updated' (6 minutes ago). Buttons for 'Cherry Pick' and 'Abandon' are also present.

The change status shows the state of the change:

- Needs <label>:

The change is in review and an approval on the shown label is still required to make the change submittable.

- Not <label>:

The change is in review and a veto vote on the shown label is preventing the submit.

- Not Current:

The currently viewed patch set is outdated.

Please note that some operations, like voting, are not available on outdated patch sets, but only on the current patch set.

- Ready to Submit:

The change has all necessary approvals and may be submitted.

- Merged:

The change was successfully merged into the destination branch.

- Abandoned:

The change was abandoned.

Commit Info Block

The commit info block shows information about the commit of the currently viewed patch set.

It displays the author and the committer as links to a list of this person's changes that have the same status as the currently viewed change.

The commit ID, the parent commit(s) and the [Change](#) related changes icon that allows the ID to be copied into the clipboard.

Search

If a Git web browser, such as gitweb or Gitlets, is configured, there is also a link to the commit in the Git web browser.

A screenshot of a Gerrit commit page for Change 55060. The page shows the commit message, author, committer, and various review status. A red callout bubble highlights the 'Commit Info' section, which includes the Author, Committer, Commit ID, and Change-ID. The commit message indicates it's a merge if necessary. The history section shows patch set uploads and reviews from Dify Cuckoo and David Pursehouse.

Author	Committer	Commit ID	Change-ID	Date
David Pursehouse <david.pursehouse@sonymobile.com>	David Pursehouse <david.pursehouse@sonymobile.com>	7dbc394cc3d80d30c1f9da7013d596009e23fb	Id1badda0d0f24f6022404be479d4681560ed0eda	03/11/14 02:24
				03/11/14 03:24

Commit Info
- Author/Committer
- Commit ID
- Change-ID

Author	Committer	Commit ID	Change-ID	Date
David Pursehouse	David Pursehouse	64d986f48a2505cde0ef7aff8069a7761854cb6f	I64d986f48a2505cde0ef7aff8069a7761854cb6f	03/11/14 10:05 AM
		976ced8f4fc0909d7e1584d18455299545881d60		14.05.2014 10:05 AM
		3c10ee65396d681dc91689a9a8baa5590f603b58		

If a merge commit is viewed this is highlighted by an icon.

Author	Edwin Kempin <edwin.kempin@sap.com>	14.05.2014 10:05 AM
Committer	Edwin Kempin <edwin.kempin@sap.com>	14.05.2014 10:05 AM
Commit	64d986f48a2505cde0ef7aff8069a7761854cb6f	(gitiles)
Parents	976ced8f4fc0909d7e1584d18455299545881d60	(gitiles)
	3c10ee65396d681dc91689a9a8baa5590f603b58	(gitiles)
Change-ID	I64d986f48a2505cde0ef7aff8069a7761854cb6f	

Change Info Block

The change info block contains detailed information about the change and offers actions on the change.

Change 55060 - Needs Code-Review

Update gwtorm to version 1.9

Updates the versions of protobuf, asm and guava libraries to synchronize with the versions used in GWT 2.6.0

Change-Id: 1d1badda0d0f24f602240be479d4681560ed...

Change Info

Owner David Pursehouse
Reviewers Diffy Cuckoo (Automated Verifier) Dave Borowitz

Project gerrit
Branch master
Topic
Strategy Merge if Necessary
Updated 26 hours ago

Code-Review
Library-Compliance
Verified -1 Diffy Cuckoo (Automated Verifier)
+1 David Pursehouse

Files

History

- Change Owner:

The owner of the change is displayed as a link to a list of the owner's changes that have the same status as the currently viewed change.

Reply...

Owner David Pursehouse
Reviewers Diffy Cuckoo (Automated Verifier)
 Dave Borowitz

Project gerrit
Branch master
Topic
Strategy Merge if Necessary
Updated 27 hours ago

Code-Review
Library-Compliance
Verified -1 Diffy Cuckoo (Automated Verifier)
+1 David Pursehouse

- Reviewers:

The reviewers of the change are displayed as chip tokens.

For each reviewer there is a tooltip that shows on which labels the reviewer is allowed to vote.

New reviewers can be added by clicking on the Add... button. Typing into the pop-up text field activates auto completion of user and group names.

Reviewers can be removed from the change by clicking on the x icon in the reviewer's chip token. Removing a reviewer also removes the current votes of the reviewer. The removal of votes is recorded as a message on the change.

- Users can always remove themselves.
- The change owner may remove any zero or positive score.
- Users with the Remove Reviewer access right, the branch owner, the project owner and Gerrit administrators may remove anyone.

The screenshot shows a Gerrit code review interface. At the top left is a 'Reply...' button. Below it, the 'Owner' is listed as 'David Pursehouse'. The 'Reviewers' section is highlighted with a red box; it lists 'Dify Cuckoo (Automated Verifier)' and 'Dave Borowitz' with an 'Add...' button. A red annotation with a callout points to this section with the text: 'Reviewers - add reviewers - delete reviewers - tooltip shows which labels are voteable'. Below the 'Reviewers' section, there are fields for 'Project' (gerrit), 'Branch' (master), 'Topic', 'Strategy' (Merge if Necessary), and 'Updated' (27 hours ago). At the bottom are buttons for 'Cherry Pick' and 'Abandon'. A horizontal line separates this from the review section below. The review section starts with 'Code-Review' and 'Library-Compliance' labels. Under 'Verified', it shows '-1 Dify Cuckoo (Automated Verifier)' and '+1 David Pursehouse'.

- Project / Branch / Topic:

The name of the project for which the change was done is displayed as a link to the default dashboard of the project. If no default dashboard is defined, the link opens a list of open changes on the project.

Clicking on the settings icon on the right side navigates to the project administration screen.

The name of the destination branch is displayed as a link to a list with all changes on this branch that have the same status as the currently viewed change.

If a topic was assigned to the change it is displayed below the branch. By clicking on the edit icon the topic can be set. This requires the Edit Topic Name access right. To be able to set a topic on a closed change, the Edit Topic Name must be assigned with the force flag.

Reply... related changes Search

Owner David Pursehouse
Reviewers Diffy Cuckoo (Automated Verifier)
 Dave Borowitz

Project gerrit
Branch master
Topic
Strategy Merge if Necessary
Updated 27 hours ago

Code-Review
Library-Compliance
Verified -1  Diffy Cuckoo (Automated Verifier)
+1  David Pursehouse



Project,
Branch,
Topic

- Submit Strategy:

The submit strategy that will be used to submit the change. The submit strategy is only displayed for open changes.

Reply... related changes Search

Owner David Pursehouse
Reviewers Diffy Cuckoo (Automated Verifier)
 Dave Borowitz

Project gerrit
Branch master
Topic
Strategy Merge if Necessary
Updated 27 hours ago

Code-Review
Library-Compliance
Verified -1  Diffy Cuckoo (Automated Verifier)
+1  David Pursehouse



Submit
Strategy

If a change cannot be merged due to path conflicts this is highlighted by a bold red Cannot Merge label.

[Reply...](#) [related changes](#) [Search](#)

Owner	David Pursehouse	
Reviewers	Diffy Cuckoo (Automated Verifier) <input checked="" type="checkbox"/> Add...	
	Dave Borowitz <input checked="" type="checkbox"/>	
Project	gerrit	
Branch	master	
Topic		
Strategy	Merge if Necessary	
Updated	27 hours ago	

[Cherry Pick](#) | [Abandon](#)

Code-Review	
Library-Compliance	
Verified	-1 Diffy Cuckoo (Automated Verifier)
	+1 David Pursehouse

Cannot Merge

X

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<div style="position: absolute; left: 670px; top: 1

The `Revert` button is available if the change has been submitted.

When the `Revert` button is pressed, a panel will appear to allow the user to enter a commit message for the reverting change.

Once a revert change is created, the original author and any reviewers of the original change are added as reviewers and a message is posted to the original change linking to the revert.

- Abandon :

Abandons the change.

The `Abandon` button is only available if the change is open and the Abandon access right is assigned.

When a change is abandoned, a panel appears that allows one to type a comment message to explain why the change is being abandoned.

- Restore :

Restores the change.

The `Restore` button is only available if the change is abandoned and the Abandon and the Push access right is assigned.

When a change is restored, a panel appears that allows one to type a comment message to explain why the change is being restored.

- Rebase :

Rebases the change. The rebase is always done with content merge enabled. If the rebase is successful a new patch set with the rebased commit is created. If the rebase fails, there are conflicts that have to be resolved manually.

If the change does not depend on another open change, it is rebased onto the tip of the destination branch.

If the change depends on another open change, it is rebased onto the current patch set of that other change.

It is possible to change parent revision of a change. The new parent revision can be another change towards the same target branch, or the tip of the target branch.

The `Rebase` button is only available if the Rebase access right is assigned. Rebasing merge commits is not supported.

- Cherry-Pick :

Allows to cherry-pick the change to another

[related changes](#)

[Search](#)

selected from a dialog. Cherry-picking a change creates a new open change on the selected destination branch.

It is also possible to cherry-pick a change to the same branch. This is effectively the same as rebasing it to the current tip of the destination branch. This can be used to remove dependencies on other open changes.

Users can only cherry-pick changes to branches for which they are allowed to upload changes for review.

- Delete Change / Delete Revision:

Deletes the change.

For open or abandoned changes, the **Delete Change** button will be available and if the user is the change owner and is granted the Delete Own Changes permission, if they are granted the Delete Changes permission, or if they are an administrator.

- Further actions may be available if plugins are installed.

The screenshot shows a Gerrit code review interface. At the top, there's a "Reply..." button. Below it, the change details are listed:

- Owner: David Pursehouse
- Reviewers: Diffy Cuckoo (Automated Verifier) (with a remove icon), Dave Borowitz (with a remove icon), and an "Add..." button.
- Project: gerrit
- Branch: master
- Topic:
- Strategy: Merge if Necessary
- Updated: 27 hours ago

Below the details, there are two buttons: "Cherry Pick" and "Abandon". A red box highlights these two buttons. To the right of the "Abandon" button, there are three small icons: a blue gear, a yellow pencil, and a green checkmark.

Under the "Code-Review" section, there are two entries:

- 1 Diffy Cuckoo (Automated Verifier)
- +1 David Pursehouse

A red callout bubble on the right side lists the following actions:

- Actions
- Cherry-Pick
- Abandon/Restore
- Rebase
- Submit

- Labels & Votes:

Approving votes are colored green; veto votes are colored red.

Owner David Pursehouse
 Reviewers Dify Cuckoo (Automated Verifier) Dave Borowitz
 Project gerrit
 Branch master
 Topic
 Strategy Merge if Necessary
 Updated 27 hours ago

Cherry Pick **Abandon**

Code-Review
Library-Compliance
Verified -1 Dify Cuckoo (Automated Verifier)
 +1 David Pursehouse

File List

The file list shows the files that are modified in the currently viewed patch set.

Change 56711 - Needs Code-Review [Edit Message](#) [Reply...](#) [Add...](#) [Related Changes \(5\)](#) [Same Topic \(4\)](#) Patch Sets (1/1) ▾ Download ▾

Owner Luca Milanesio
 Reviewers David Pursehouse
 Project plugins/scripting/scala-provider
 Branch master
 Topic scripting-reloaded
 Strategy Merge if Necessary
 Updated 24 hours ago

Code-Review
Verified

Author	Committer	Commit	Date
Luca Milanesio <luca.milanesio@gmail.com>	Luca Milanesio <luca.milanesio@gmail.com>	6371bed9e2520b96576e02bd44c1db5fafe661	05/01/14 09:50
Change-Id: Ib38455eed107d920389953e51dae8046360396dd		(gitiles)	

Files [Open All](#) [Diff against: Base](#)

File Path	Comments	Size
src/main/java/com/googlesource/gerrit/plugins/scripting/scala/ScalaPluginScanner.java	comments: 3	75
A src/main/java/com/googlesource/gerrit/plugins/web/LookAheadFileInputStream.java		106
A src/main/java/com/googlesource/gerrit/plugins/web/SSIPagelInputStream.java		145
A src/main/java/com/googlesource/gerrit/plugins/web/WebPluginScanner.java		131
		+390, -67

History [Expand All](#)

Author	Message	Date
Luca Milanesio	Uploaded patch set 1.	05/01/09:51
Luca Milanesio	Topic set to scripting-reloaded	05/01/09:51
David Pursehouse	Patch Set 1: (3 comments)	05/01/10:23

In addition to the modified files the file list contains magic files that are generated by Gerrit and which don't exist in the repository. The magic files contain additional commit data that should be reviewable and allow users to comment on this data. The magic files are always listed first. The following magic files exist:

- Commit Message :

The commit message and headers with the parent commit(s), the author information and the committer information.

- Merge List (for merge commits only):

The list of commits that are being integrated into the destination branch by submitting the merge commit.

The checkboxes in front of the file names allow for marking files as reviewed.

Search

A screenshot of a Gerrit commit history interface. At the top left, there's a 'Files' button and a 'Mark File as Reviewed' button with a red checkmark icon. Below this is a table with columns: 'File Path', 'Comments', and 'Size'. The 'File Path' column lists several Java files under the 'gerrit/plugins' directory, each with its modification type (e.g., 'M', 'A', 'D') and a checkbox for marking it as reviewed. The 'Comments' column shows 'comments: 3' and the 'Size' column shows file sizes and a total diff of '+390, -67'.

File Path	Comments	Size
gerrit/plugins/scripting/scala/ScalaPluginScanner.java	comments: 3	75
gerrit/plugins/web/LookAheadInputStream.java		106
src/main/java/com/googlesource/gerrit/plugins/web/SSIPageInputStream.java		145
src/main/java/com/googlesource/gerrit/plugins/web/WebPluginScanner.java		131
		+390, -67

The type of a file modification is indicated by the character in front of the file name:

- 'no character' (Modified):

The file existed before this change and is modified.

- A (Added):

The file is newly added.

- D (Deleted):

The file is deleted.

- R (Renamed):

The file is renamed.

- C (Copied):

The file is new and is copied from an existing file.

A screenshot of a Gerrit commit history interface. A red box highlights the 'Commit Message' entry. A red speech bubble labeled 'Modification Type' points to the modification type 'M' in front of the first file path. The table structure is identical to the one above, showing file paths, comments, and sizes.

File Path	Comments	Size
Commit Message	comments: 3	
gerrit/plugins/scripting/scala/ScalaPluginScanner.java		75
gerrit/plugins/web/LookAheadInputStream.java		106
src/main/java/com/googlesource/gerrit/plugins/web/SSIPageInputStream.java		145
src/main/java/com/googlesource/gerrit/plugins/web/WebPluginScanner.java		131
		+390, -67

If a file is renamed or copied, the name of the original file is displayed in gray below the file name.

A screenshot of a Gerrit commit history interface. A red box highlights the file ' GetUserFilter.java' in the list. A red speech bubble labeled 'Rename' points to the word 'Rename' in the commit message. The table structure is identical to the ones above, showing file paths, comments, and sizes.

File Path	Comments	Size
Commit Message	comments: 3	
Documentation/config-gerrit.txt		
R gerrit-https/src/main/java/com/google/gerrit/httpd/ GetUserFilter.java		
gerrit-pgm/src/main/java/com/google/gerrit/pgm/http/jetty/ GetUserFilter.java		
gerrit-pgm/src/main/java/com/google/gerrit/pgm/Daemon.java		
gerrit-pgm/src/main/java/com/google/gerrit/pgm/http/jetty/HttpLog.java		

Files Diff against: Base

- Commit Message
- Documentation/dev-plugins.txt
- R Documentation/rest-api-changes.txt
- gerrit-extension-api/src/main/java/com/google/gerrit/extensions/common/ListChangesOption.java
- gerrit-pgm/src/main/java/com/google/gerrit/pgm/Daemon.java**
- gerrit-pgm/src/main/java/com/google/gerrit/pgm/http/jetty/HttpLog.java

Repeating Path Segments are grayed out

Inline comments on a file are shown in the `Comments` column.

Draft comments, i.e. comments that have been written by the current user but not yet published, are highlighted in red.

New comments from other users, that were published after the current user last reviewed this change, are highlighted in bold.

Files

- Commit Message
- Documentation/dev-plugins.txt
- Documentation/rest-api-changes.txt
- gerrit-extension-api/src/main/java/com/google/gerrit/extensions/common/ListChangesOption.java

Comments	Size
drafts: 1	33
comments: 3	7
new: 3	5

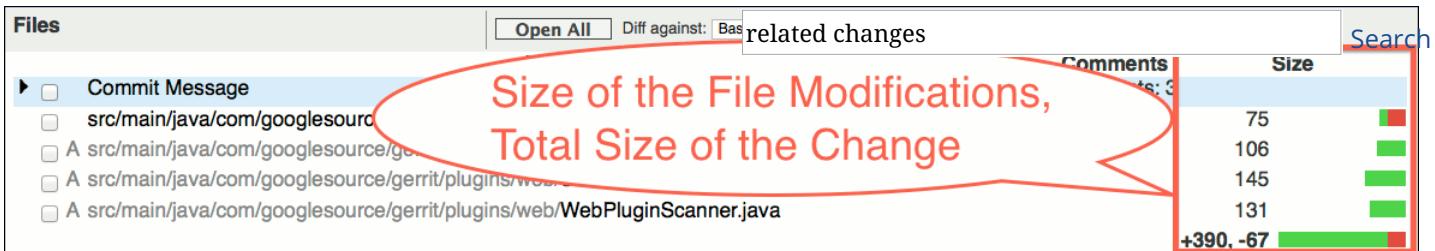
Drafts and new comments are highlighted

The size of the modifications in the files can be seen in the `Size` column. The footer row shows the total size of the change.

The size information is useful to easily spot the files that contain the most modifications; these files are likely to be the most relevant files for this change. The total change size gives an estimate of how long a review of this change may take.

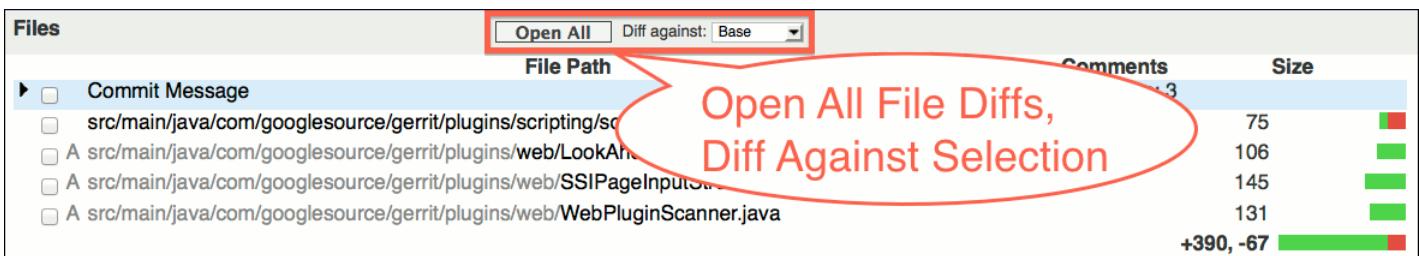
When the "Show Change Sizes As Colored Bars" user preference is enabled, the `Size` column shows the sum of inserted and deleted lines as one number. In addition, the change size is shown as a bar. The size of the bar indicates the amount of changed lines, and its coloring shows the proportion of insertions (green) to deletions (red).

When the "Show Change Sizes As Colored Bars" user preference is disabled, the colored bar is not shown. For added and renamed files, the `Size` column shows the number of inserted and deleted lines. For new files, the column only shows the total number of lines in the new file. No size is shown for binary files and deleted files.



In the header of the file list, the **Diff Against** selection can be changed. This selection allows one to choose if the currently viewed patch set should be compared against its base or against another patch set of this change. The file list is updated accordingly.

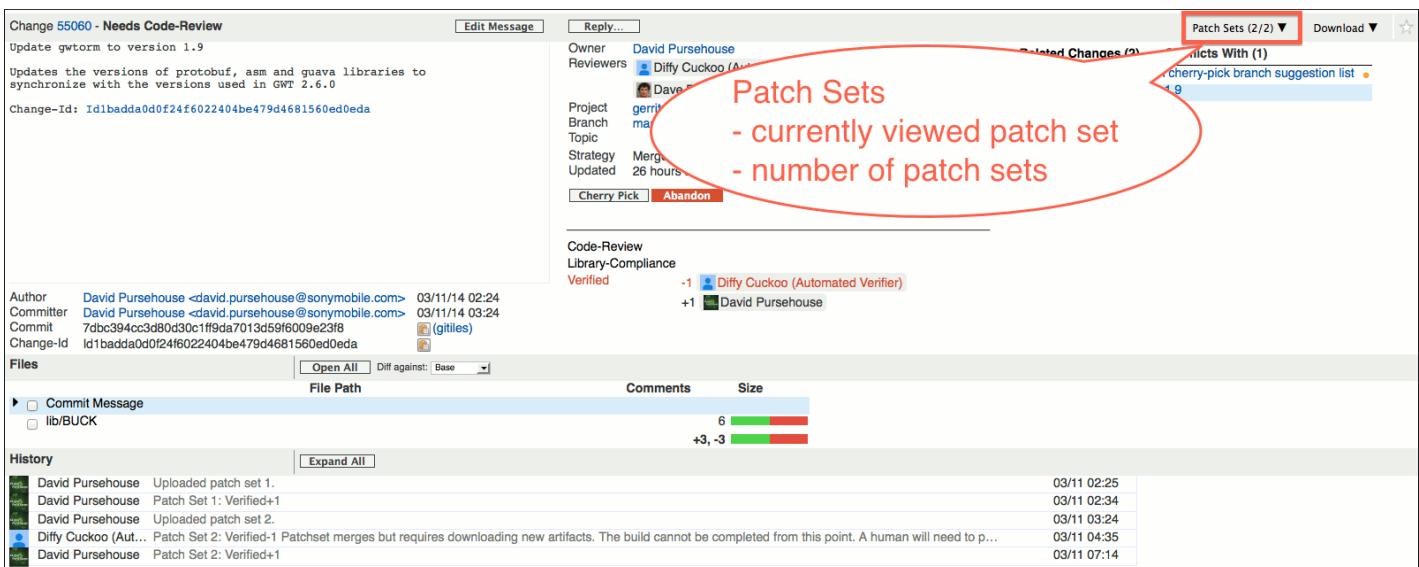
The file list header also provides an **Open All** button that opens the diff views for all files in the file list.



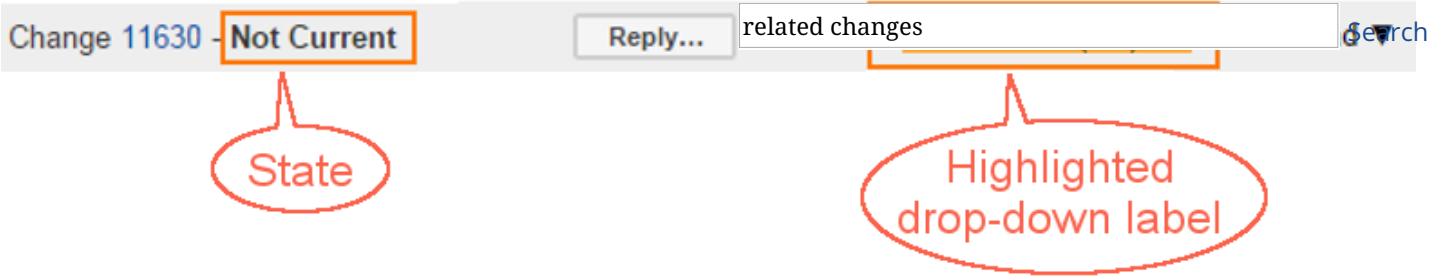
Patch Sets

The change screen only presents one patch set at a time. Which patch set is currently viewed can be seen from the **Patch Sets** drop-down panel in the change header. It shows the number of the currently viewed patch set and the total number of patch sets, in the form: "current patch set/number of patch sets".

If a non-current patch set is viewed this is indicated by the **Not Current** change state. Please note that some operations are only available on the current patch set.



Another indication is a highlighted drop-down label.



The patch set drop-down list shows the list of patch sets and allows to switch between them. The patch sets are sorted in descending order so that the current patch set is always on top.

Draft patch sets are marked with DRAFT .

The screenshot shows a Gerrit change detail page for "Change 55060 - Needs Code-Review". It includes sections for "Edit Message", "Patch Sets (2/2)", "Download", "Project: gerrit", "Branch: master", "Topic", "Strategy: Merge if Necessary", and "Updated: 27 hours ago". A red box highlights the "Patch Set" table, which lists two patch sets: "2" (Commit: 7dbc394cc3, Date: 03/11 03:24, Author: David Pursehouse) and "1" (Commit: 2c400df5ee, Date: 03/11 02:24, Author: David Pursehouse). A red arrow points from a red oval labeled "List of Patch Sets - newest on top" to the table. Another red box highlights a red-bordered area containing "Keys for Navigation between Patch Sets:" followed by a list: "- 'n' = Next Patch Set", "- 'p' = Previous Patch Set", and "- 'R' = Reload Change / Current Patch Set".

Patch Set	Commit	Date	Author / Committer
2	7dbc394cc3	03/11 03:24	David Pursehouse
1	2c400df5ee	03/11 02:24	David Pursehouse

Download

The Download drop-down panel in the change header offers commands and links for downloading the currently viewed patch set.

The screenshot shows a Gerrit patch set details page. At the top, there are buttons for 'Edit Message', 'Reply...', 'Owner Phil Lello', and 'Reviewers'. Below that, it lists 'related changes' with a list of reviewers: David Pursehouse, Dify Cuckoo (Automated Verifier), Kyle Laker, Nasser Grainawi, and Rob Ward. There are buttons for 'Add...', 'Cherry Pick', 'Rebase', and 'Abandon'. The 'Strategy' is set to 'Merge if Necessary' and was updated 6 days ago. Below this, there's a 'Code-Review' section with a 'Verified' status. The 'Files' section shows a table of files with their sizes and change counts. The 'History' section shows a log of patch set updates. A red circle highlights the 'Download Commands' link in the top right corner.

The available download commands depend on the installed Gerrit plugins. The most popular plugin for download commands, the [download-commands](#)

(<https://gerrit-review.googlesource.com/#/admin/projects/plugins/download-commands>) plugin, provides commands to checkout, pull and cherry-pick a patch set.

Each command has a copy-to-clipboard icon that allows the command to be copied into the clipboard. This makes it easy to paste and execute the command on a Git command line.

If several download schemes are configured on the server (e.g. SSH and HTTP) there is a drop-down list to switch between the download schemes. Gerrit automatically remembers the download scheme that was last chosen and selects this download scheme the next time the download commands drop-down panel is opened.

The [Patch-File](#) links provide the Git patch file for the currently viewed patch set for download. The patch file can be base64 encoded or zipped.

The [Archive](#) links allow one to download an archive with the contents of the currently viewed patch set. The archive is offered in several formats (e.g. tar and tbz2); which formats are available depends on the configuration of the server.

Change 55243 - Needs Code-Review

[Edit Message](#) [Rep](#) related changes

Cross-project dependencies

This is a patch to allow manual addition of dependencies in other projects, by adding a Depends-On: footer.

e.g. Depends-On: <projectname>~<branch>~<Change-Id>

Note that this is a work-in-progress requiring further testing, but is hopefully complete.

Additional considerations:

- Need to check what happens if a dependency has multiple versions
- It might be nice to allow a numeric range

Feature: Issue 377
Change-Id: Idc47ce55677c87fb5d...

Author: Phil Lello <philipl@catalyst...

Committer: Rob Ward <robert.ward114@...

Commit: d556cea4601a4758e567b30822...

Change-Id: ldc47ce55677c87fb5d528a1d1c5225ba...

Files

	File Path	Comments	Size
<input type="checkbox"/>	Commit Message	3	
<input type="checkbox"/>	gerrit-gwtui/src/main/java/com/google/gerrit/client/change/RelatedChanges.java	29	
<input type="checkbox"/>	gerrit-gwtui/src/main/java/com/google/gerrit/client/changes/ChangeScreen.java	54	
<input type="checkbox"/>	gerrit-server/src/main/java/com/google/gerrit/server/change/GetRelated.java	77	
<input type="checkbox"/>	gerrit-server/src/main/java/com/google/gerrit/server/git/validators/CommitValidators.java	+153, -10	

History

	Event	Details	Date
Phil Lello	Uploaded patch set 1.		03/18 21:54
Diffy Cuckoo (Aut...	Patch Set 1: Verified+1 Patchset merges and builds. Congratulations!		03/18 22:47
Phil Lello	Patch Set 2: Commit message was updated		03/18 23:13
David Pursehouse	Patch Set 3: Commit message was updated		03/19 01:44

Project [Edit](#) [if Necessary](#) [go](#) [base](#) [Abandon](#)

Download Commands

- available Commands depend on Installed Plugins
- download Patch File & Git Archive

Included In

For merged changes the Included In drop-down panel is available in the change header.

Change 51560 - Merged

Copy reviewed flag for deleted files

If a file is deleted and a user marks it as reviewed, copy the reviewed mark onto newer revisions provided the same content has been deleted. Checking the content of the deleted file allows reviewers to re-examine a delete after a rebase, in case there is content in the newer deleted revision that needs to be considered to be moved elsewhere.

Rewrite the copying process to iterate the 2 or 4 trees exactly once, relying on a PathFilterGroup to identify the relevant files. This should be faster on larger changes as it avoids revisiting trees. It is also easier to handle the 2 additional trees for the ancestor content check on deleted files.

Change-Id: Ic710ca2971e66ea919ee1c9f51eb42538174e7b3

Owner: Shawn Pearce <sop@google.com>
Reviewers: Colby Ranger
Project: gerrit
Branch: stable-2.8
Topic:
Updated: 4 months ago

[Included in ▾](#) Patch Sets (1/1) ▾ [Download ▾](#)

Included In

Code-Review +2 Shawn Pearce
+1 Colby Ranger
Verified +1 Shawn Pearce

Author: Shawn Pearce <sop@google.com>
Committer: Shawn Pearce <sop@google.com>
Commit: a7ef8dadbc01f77dc088cd5ade4170d4c5c44
Change-Id: Ic710ca2971e66ea919ee1c9f51eb42538174e7b3

Files

	File Path	Comments	Size
<input type="checkbox"/>	Commit Message	63	
<input type="checkbox"/>	gerrit-server/src/main/java/com/google/gerrit/server/change/Files.java	+44, -19	

History

	Event	Details	Date
Colby Ranger	Patch Set 1: Code-Review+1		11/09 01:01
Shawn Pearce	Patch Set 1: Code-Review+2 Verified+1		11/09 01:02
Shawn Pearce	Change has been successfully merged into the git repository.		11/09 01:02

The Included In drop-down panel shows the branches and tags in which the change is included. E.g. if a change fixes a bug, this allows to quickly see in which released versions the bug-fix is contained (assuming that every release is tagged).

Change 51560 - Merged

Copy reviewed flag for deleted files

If a file is deleted and a user marks it as reviewed, copy the reviewed mark onto newer revisions provided the same content has been deleted. Checking the content of the deleted file allows reviewers to re-examine a delete after a rebase, in case there is content in the newer deleted revision that needs to be considered to be moved elsewhere.

Rewrite the copying process to iterate the 2 or 4 trees exactly once, relying on a PathFilterGroup to identify the relevant files. This should be faster on larger changes as it avoids revisiting trees. It is also easier to handle the 2 additional trees for the ancestor content check on deleted files.

Change-Id: 1c710ca2971e66ea919ee1c9f51eb42538174e7b3

Author: Shawn Pearce <sop@google.com> 11/09/13 00:35
Committer: Shawn Pearce <sop@google.com> 11/09/13 01:00
Commit: a7ef8dadbc01f77dc086cbcd3ade417f0d4c5c44
Change-Id: lc710ca2971e66ea919ee1c9f51eb42538174e7b3

Files

File Path	Comments	Size
Commit Message	+2	63
gerrit-server/src/main/java/com/google/gerrit/server/change/Files.java	+1	+44, -19

History

Author	Comment	Date
Colby Ranger	Patch Set 1: Code-Review+1	11/09 01:01
Shawn Pearce	Patch Set 1: Code-Review+2 Verified+1	11/09 01:02
Shawn Pearce	Change has been successfully merged into the git repository.	11/09 01:02

Star Change

The star icon in the change header allows to mark the change as a favorite. Clicking on the star icon again, unstars the change.

Change 55060 - Needs Code-Review

Update gwtorm to version 1.9

Updates the versions of protobuf, asm and guava libraries to synchronize with the versions used in GWT 2.6.0

Change-Id: 1d1badda0d0f24f6022404be479d4681560ed0eda

Owner: David Pursehouse
Reviewers: Diffy Cuckoo (Automated Verifier), Dave Borowitz

Project: gerrit
Branch: master
Topic: [Merge if Necessary](#)
Strategy: Merge if Necessary
Updated: 26 hours ago

Files

File Path	Comments	Size
Commit Message	+1	6
lib/BUCK	+1	+3, -3

History

Author	Comment	Date
David Pursehouse	Uploaded patch set 1.	03/11/14 02:24
David Pursehouse	Patch Set 1: Verified+1	03/11/14 03:24
David Pursehouse	Uploaded patch set 2.	03/11/14 03:24
Diffy Cuckoo (Aut...)	Patch Set 2: Verified+1 Patchset merges but requires downloading new artifacts. The build cannot be completed from this point. A human will need to p...	03/11/14 04:35
David Pursehouse	Patch Set 2: Verified+1	03/11/14 07:14

Starring a change turns on email notifications for this change.

Starred changes are listed under [My > Starred Changes](#) . and can be queried by the [is:starred](#) search operator.

Related Changes

If there are changes that are related to the currently viewed change they are displayed in the third column of the change screen.

There are several lists of related changes and a tab control is used to display each list of related changes in its own tab.

The following tabs may be displayed:

- Related Changes :

related changes

Search

This tab page shows changes on which the current change depends (ancestors) and open changes that depend on the current change (descendants). For merge commits it also shows the closed changes that will be merged into the destination branch by submitting the merge commit.

The changes are sorted in the same way as the output of 'git log'. This means the relationship between the changes can be inferred from the position of the changes in the list. Changes listed above the current change are descendants; changes below the current change are ancestors.

For merged changes this tab is only shown if there are open descendants.

Dependencies

- sorted same way as 'git log' output
- orange dot = not current
- green tilde = indirect descendant
- black dot = merged commit

Change 56097 - Needs Code-Review

Decouple plugins from their "jar" external form

Until now all the server-side plugins have been associated to a single jar file in the /plugin directory.

As first step to allow different forms of plugins (e.g. script files, directories or anything else that can provide classes and resources) we need to de-couple the underlying Jar file from the server side plugin.

We introduce the concept of "plugin-scanner" as the interface to scan the external form to discover:

- plugin classes
- plugin resources
- plugin meta-data (i.e. Manifest)

Change-Id: f769595a030545a5f272f453c3cf435b74719ele7

Author Luca Milanesio <luca.milanesio@gmail.com>

Committer Luca Milanesio <luca.milanesio@gmail.com>

Commit a9c8bcba2b2597c4c6979c6a5f2bb19dba927e44

Change-Id: i769595a030545a5f272f453c3cf435b74719ele7

Files

History

Owner Luca Milanesio
Reviewers Dariusz Łukasz, David Ostrovsky, Difly Cuckoo (Automated Verifier), Shawn Pearce
Project gerrit
Branch main

Patch Sets (12/15) ▾ Download ▾

Related Changes (5) Same Topic (8) Conflicts With (2)

Serve static resources for non-jar Server plugins
Introduce support for externally loaded plugins
Decouple plugins from their "jar" external form
Renaming JarPlugin to ServerPlugin for future extensions
Removed unused methods and fields in JarScanner

File	Line	Change	Line	Change
gerrit-server/src/main/java/com/google/gerrit/server/plugins/AutoRegister.java	2	A	130	A
gerrit-server/src/main/java/com/google/gerrit/server/plugins/JarScanner.java	64	A	64	A
gerrit-server/src/main/java/com/google/gerrit/server/plugins/JsPlugin.java	4	A	4	A
gerrit-server/src/main/java/com/google/gerrit/server/plugins/ListPlugins.java	24	A	24	A
gerrit-server/src/main/java/com/google/gerrit/server/plugins/Plugin.java	+307, -35	A	+307, -35	A

Luca Milanesio Uploaded patch set 1. 04/18 00:46
Luca Milanesio Topic set to scripting-reloaded 04/18 00:47
Difly Cuckoo (Aut... Patch Set 1: Verified+1 Patchset merges and builds. Congratulations! 04/18 05:41

Related changes may be decorated with an icon to signify dependencies on outdated patch sets, or commits that are not associated to changes under review:

- Orange Dot:

The selected patch set of the change is outdated; it is not the current patch set of the change.

If an ancestor change is marked with an orange dot it means that the currently viewed patch set depends on a outdated patch set of the ancestor change. This is because a new patch set for the ancestor change was uploaded in the meantime and as result the currently viewed patch set now needs to be rebased.

If a descendant change is marked with an orange dot it means that an old patch set of the descendant change depends on the currently viewed patch set. It may be that the descendant was rebased in the meantime and with the new patch set this dependency was removed.

- Green Tilde:

[related changes](#)

[Search](#)

The selected patch set of the change is an indirect descendant of the currently viewed patch set; it has a dependency to another patch set of this change. E.g. this could mean that a new patch set was uploaded for this change and the descendant change now needs to be rebased. Please note that following the link to an indirect descendant change may result in a completely different related changes listing.

- Black Dot:

Indicates a closed ancestor, e.g. the commit was directly pushed into the repository bypassing code review, or the ancestor change was reviewed and submitted on another branch. The latter may indicate that the user has accidentally pushed the commit to the wrong branch, e.g. the commit was done on `branch-a`, but was then pushed to `refs/for/branch-b`. A black dot is also present if the change was abandoned.

- Strikethrough Subject:

When the commit is abandoned, its subject line will be striked through.

Related Changes (5)	Same Topic (8)	Conflicts With (2)
Serve static resources for non-jar Server plugins		~
Introduce support for externally loaded plugins		
► Decouple plugins from their "jar" external form		
Renaming JarPlugin to ServerPlugin for future extensions		●
Removed unused methods and fields in JarScanner		●

- Conflicts With:

This tab page shows changes that conflict with the current change. Non-mergeable changes are filtered out; only conflicting changes that are mergeable are shown.

If this change is merged, its conflicting changes will have merge conflicts and must be rebased. The rebase of the other changes with the conflict resolution must then be done manually.

Change 55060 - Needs Code-Review

Owner: David Pursehouse

Reviewers: Difly Cuckoo (Automated Verifier), Dave Borowitz

Project: Branch: (titles)

related changes

Author: David Pursehouse <david.pursehouse@sonymobile.com> 03/11/14 02:24
Committer: David Pursehouse <david.pursehouse@sonymobile.com> 03/11/14 03:24
Commit: 7dbc394cc3d8bd30c1f9da7013d59f6009e23f8
Change-Id: id1badda0d0f24f6022404be479d4681560ed0eda

Files

File Path	Comments	Size
lib/BUCK	6 +3, -3	

History

Author	Message	Date
David Pursehouse	Uploaded patch set 1.	03/11/14 02:25
David Pursehouse	Patch Set 1: Verified+1	03/11/14 02:34
David Pursehouse	Uploaded patch set 2.	03/11/14 03:24
Difly Cuckoo (Aut...)	Patch Set 2: Verified-1 Patchset merges but requires downloading new artifacts. The build cannot be completed from this point. A human will need to p...	03/11/14 04:35
David Pursehouse	Patch Set 2: Verified+1	03/11/14 07:14

- Same Topic :

This tab page shows changes that have the same topic as the current change. Only open changes are included in the list.

Change 54508 - Needs Code-Review

Support for Scripting Plugins self-registration

As scripting plugins do not have a MANIFEST.MF associated we need to allow the self-registration of classes defined and exported by the script, using the same annotation defined for regular plugins (@Export, @Listen).

Change-Id: 14file30b074c0bce818cdac21d1760061f5e56f1

Owner: Luca Milanesio

Reviewers: David Ostrovsky, Shawn Pearce, Difly Cuckoo (Automated Verifier)

Project: Branch: master

Related Changes (7) Same Topic (4)

- Refactor JsPlugin to support generic scripting plugins.
- AutoRegisterScript: Expose class and methods to use from...
- Scala plugins for Gerrit
- Groovy scripting plugins for Gerrit

Files

File Path	Comments	Size
A gerrit-server/src/main/java/com/google/gerrit/server/plugins/AutoRegisterScript.java	comments: 2 +210, -0	

History

Author	Message	Date
Luca Milanesio	Uploaded patch set 1.	02/11/14 22:50
Luca Milanesio	Patch Set 2: Commit message was updated	03/07/14 01:13
Luca Milanesio	Uploaded patch set 3.	
Luca Milanesio	Uploaded patch set 4.	
Luca Milanesio	Topic set to scripting-plugins	

- Submitted Together :

This tab page shows changes that will be submitted together with the currently viewed change, when clicking the submit button. It includes ancestors of the current patch set.

This may include changes and its ancestors with the same topic if `change.submitWholeTopic` is enabled. Only open changes with the same topic are included in the list.

- Cherry-Picks :

This tab page shows changes with the same Change-Id for the current project.

Abandoned changes are filtered out.

For each change in this list the destination branch is shown as a prefix in front of the change subject.

The screenshot shows a Gerrit patch set page for Change 54942. The header includes tabs for 'Edit Message', 'Reply...', 'Code-Review', and 'Load'. The 'Code-Review' tab is active. The page displays the following information:

- Owner:** Orgad Shanh
- Reviewers:** Orgad Shanh, David Ostrovsky, Difly Cuckoo (Automated Verifier), Dave Borowitz
- Project:** gerrit
- Branch:** master
- Topic:**
- Strategy:** Merge if Necessary
- Updated:** 2 hours ago

Below the header, there are two tabs: 'Cherry Pick' (highlighted with a red oval) and 'Abandon'.

The main content area shows the patch set details:

- Author:** Orgad Shanh <orgads@gmail.com>
- Committer:** Orgad Shanh <orgads@gmail.com>
- Commit:** 4e991489321bc422a61d5c0b9ae8fe4932cccd499
- Change-Id:** lc54ef16f4a48fc5c8dc48d715cb5c2fc263ea2
- Files:** Open All, Diff against: Base, File Path, Comments, Size
- Comments:** 2 comments, 13 lines (green), +2, -11 lines (red)

The 'History' section shows patch set uploads:

- Orgad Shanh: Uploaded patch set 1. 03/03 13:25
- Difly Cuckoo (Aut...): Patch Set 1: Verified+1 Patchset merges and builds. Congratulations! 03/03 14:38
- Orgad Shanh: Uploaded patch set 2. 09:28
- Difly Cuckoo (Aut...): Patch Set 2: Verified+1 Patchset merges and builds. Congratulations! 11:41

If there are no related changes for a tab, the tab is not displayed.

Reply

The **Reply...** button in the change header allows to reply to the currently viewed patch set; one can add a summary comment, publish inline draft comments, and vote on the labels.

The screenshot shows a Gerrit patch set page for Change 55060. The 'Reply...' button is highlighted with a red box and a tooltip:

Reply to Change
- add summary comment
- vote
- publish inline comments

The rest of the page content is identical to the first screenshot, showing patch set details, files, and history.

Clicking on the **Reply...** button opens a popup panel.

A text box allows to type a summary comment for the currently viewed patch set. Some basic markdown-like syntax is supported which renders indented lines preformatted, lines starting with "- " or "* " as list items, and lines starting with "> " as block quotes (also see replying to messages and inline comments).

Note that you can set the text and tooltip of the button in `gerrit.config`.

If the current patch set is viewed, radio buttons are displayed for each label on which the user is allowed to vote. Voting on non-current patch sets is not possible.

The inline draft comments that will be published [related changes](#) [Search](#)
they can be reviewed before publishing. There are links to navigate to the inline comments
which can be used if a comment needs to be edited.

The Post button publishes the comments and the votes.

Change 55060 - Needs Code-Review

Update gwtorm to version 1.9

Updates the versions of protobuf, asm and guava libraries to synchronize with the versions used in GWT 2.6.0

Change-Id: 1d1badda0d0f24f6022404be479d4681560ed0eda

Author: David Pursehouse

Committer: David Pursehouse

Commit: lib/BUCK

Files: lib/BUCK

History:

- David Pursehouse Updated patch set 1. 03/11/2014 02:25
- David Pursehouse Patch Set 1: verified 03/11/2014 02:34
- David Pursehouse Uploaded patch set 2. 03/11/2014 03:24
- Diffy Cuckoo (Automated Verifier) Patch Set 2: Verified-1 Patchset merges but requires downloading new artifacts. The build cannot be completed from this point. A human will need to p... 03/11/2014 04:35
- David Pursehouse Patch Set 2: Verified+1 03/11/2014 07:14

Reply...

Seems to work pretty well, but I would like that another committer also approves this.

-2 -1 0 +1 +2

Code-Review: Looks good to me, but someone else must approve

Verified: No score

lib/BUCK

Line 30: This is an inline comment for demo purposes.

Post **Cancel**

Comments Size

drafts: 1 6 +3, -3

If a user can approve a label that is still required, a quick approve button appears in the change header that allows to add this missing approval by a single click. The quick approve button only appears if there is a single label that is still required and can be approved by the user.

E.g. if a change requires approvals on the 'Code-Review' and the 'Verified' labels, and there is already a '+1 Verified' vote, then if the user is allowed to vote the max score on 'Code-Review', a Code-Review+2 quick approve button appears that approves the 'Code-Review' label if clicked.

Using the quick approve button also publishes all inline draft comments; a summary comment is only added if the reply popup panel is open when the quick approve button is clicked.

Change 54942 - Needs Code-Review

Fix false rework detection on rebase and commit message update

When a change was both rebased and its commit message modified, it is detected as REWORK instead of TRIVIAL

Change-Id: 1c54ef16f4a48fcc5c8ddc48d715cb5c2fc263ea2

Author: Orgad Shanhay <orgads@gmail.com>

Committer: Orgad Shanhay <orgads@gmail.com>

Commit: 4e991489321bc422a61d5c0ba9a08fe4932ccdf499

Change-Id: lc54ef16f4a48fcc5c8ddc48d715cb5c2fc263ea2

Files: Commit Message, gerrit-server/src/main/java/com/google/gerrit/server/change/ChangeKindCache.java

Open All Diff against: Base

Code-Review +2 David Ostrovsky

Verified +1 Diffy Cuckoo (Automated Verifier)

Project: gerrit

Branch: master

Topic: Cherry-Picks (1)

Strategy: Merge if Necessary

Updated: 2 hours ago

Cherry Pick Abandon

Comments Size

comments: 2 13 +2, -11

History:

- Orgad Shanhay Uploaded patch set 1. 03/03/2014 13:25
- Diffy Cuckoo (Automated Verifier) Patch Set 1: Verified+1 Patchset merges and builds. Congratulations! 03/03/2014 14:38
- Orgad Shanhay Uploaded patch set 2. 09:28
- Diffy Cuckoo (Automated Verifier) Patch Set 2: Verified+1 Patchset merges and builds. Congratulations! 11:41

History

[related changes](#)[Search](#)

The history of the change can be seen in the lower part of the screen.

The history contains messages for all kinds of change updates, e.g. a message is added when a new patch set is uploaded or when a review was done.

Messages with new comments from other users, that were published after the current user last reviewed this change, are automatically expanded.

The screenshot shows the Gerrit web interface for a specific change. At the top, there's a header with 'Edit Message' and 'Reply...' buttons. Below the header, the main content area displays the change details, including:

- Cross-project dependencies:** A note about adding manual dependencies.
- e.g. Depends-On:** <projectname><branch>~<Change-Id>
- Note:** This is a work-in-progress requiring further testing, but is hopefully complete.
- Additional considerations:**
 - Need to check what happens if a depended-on project is deleted
 - It might be nice to allow a numeric change number
- Feature:** Issue 377
- Change-Id:** Idc47ce55677c87fb528a1d1c5225ba70fc3abc8

On the right side, there are sections for **Owner** (Phil Lello), **Reviewers** (David Pursehouse, Dify Cuckoo, Kyle Laker, Nasser Grainawi, Rob Ward), **Project** (gergit), **Branch** (master), **Topic**, **Strategy** (Merge if Necessary), and **Updated** (7 days ago). Buttons for **Cherry Pick**, **Rebase**, and **Abandon** are also present.

Below the main content, there's a section for **Code-Review** with a status of **Verified**. A red callout bubble points to this section with the text: "Change History - New Comments are automatically expanded".

The bottom half of the screenshot shows the **History** section, which lists activity for the patch set. It includes entries from various users (Phil Lello, David Pursehouse, Nasser Grainawi, etc.) with their comments and timestamps. A red box highlights the history section.

At the very bottom, there's a note: "Patch Set 10: Note that something like this was attempted before: https://gerrit-review.googlesource.com/#/c/44052/".

It is possible to directly reply to a change message by clicking on the reply icon in the right upper corner of a change message. This opens the reply popup panel and prefills the text box with the quoted comment. Then the reply can be written below the quoted comment or inserted inline. Lines starting with ">" will be rendered as a block quote. Please note that for a correct rendering it is important to leave a blank line between a quoted block and the reply to it.

Change 55243 - Needs Code-Review

[Edit Message](#) [Reply...](#) [Code-Review+2](#) [related changes](#) [bad ▾](#) [Search](#)

Cross-project dependencies

This is a patch to allow manual addition of dependencies in other projects, by adding a Depends-On: footer.

e.g. Depends-On: <projectname><branch>~<Change-Id>

Note that this is a work-in-progress requiring further testing, but is hopefully complete.

Additional considerations:

- Need to check what happens if a depended-on project is deleted
- It might be nice to allow a numeric change number

Feature: Issue 377

Change-Id: 1dc47ce55677c87fb528a1d1c5225ba70fc3abc8

Author: Phil Lello <philip@catalyst-eu.net>

Committer: Rob Ward <robert.ward114@googlemail.com>

Commit: d556cea4601a4758a567b308221657dd8bd95a0e

Change-Id: 1dc47ce55677c87fb528a1d1c5225ba70fc3abc8

Files

File Path	Comments	Size
Commit Message	3	48
gerrit-gwtui/src/main/java/com/google/gerrit/client/RelatedChanges.java	29	48
gerrit-gwtui/src/main/java/com/google/gerrit/client/changes/ChangeScreen.java	54	48
gerrit-server/src/main/java/com/google/gerrit/server/change/GetRelated.java	77	48
gerrit-server/src/main/java/com/google/gerrit/server/gitValidators/CommitValidators.java	+153, -10	48

History

[Expand All](#)

Author	Message	Date
Phil Lello	Uploaded patch set 1.	03/18/14 21:51
Diffy Cuckoo (Aut...)	Patch Set 1: Verified+1 Patchset merges and builds. Congratulations!	03/18/14 22:47
Phil Lello	Patch Set 2: Commit message was updated	03/18/14 23:13
David Pursehouse	Patch Set 3: Commit message was updated	03/19 01:44
Nasser Graianwi	Patch Set 3: (1 comment)	03/19 15:56
Phil Lello	Patch Set 3: (1 comment)	03/19 20:09
Phil Lello	Uploaded patch set 4.	03/19 22:41
Diffy Cuckoo (Aut...)	Patch Set 4: Verified+1 Patchset merges and builds. Congratulations!	03/19 23:41
David Pursehouse	Patch Set 4: (1 comment)	03/20 00:18
David Pursehouse	Patch Set 4: Note that something like this was attempted before: https://gerrit-review.googlesource.com/#/c/44052/	03/20 00:21
Kyle Laker	Patch Set 4: Code-Review-1 (1 comment)	03/20 02:54
Phil Lello	Uploaded patch set 5.	03/20 09:54
Phil Lello	but does not build. The following snippet of output may point you in the right direction: [-] PARSI	03/20 10:05
Diffy Cuckoo (Aut...)	Phil Lello but does not build. The following snippet of output may point you in the right direction: [-] PARSI	03/20 10:48
Phil Lello	Phil Lello but does not build. The following snippet of output may point you in the right direction: [-] PARSI	03/20 11:12
Phil Lello	Phil Lello but does not build. The following snippet of output may point you in the right direction: [-] PARSI	03/20 13:04
Phil Lello	Phil Lello but does not build. The following snippet of output may point you in the right direction: [-] PARSI	03/20 13:29
Phil Lello	Phil Lello but does not build. The following snippet of output may point you in the right direction: [-] PARSI	03/20 23:56 ↗

Note that something like this was attempted before: <https://gerrit-review.googlesource.com/#/c/44052/>

It looks like activity stalled on that about 9 months ago, and that it had a wider scope. I'd like to stick with this feature, then progressively enhance it once it's in the wild.

Quote Old Comment when Replying

Block Quote for Old Comment on Reply

Reply to Comment

Inline comments are directly displayed in the change history and there are links to navigate to the inline comments.

Change 54859 - Needs Code-Review

[Edit Message](#) [Reply...](#) [Code-Review+2](#) [Patch Sets \(3/3\) ▾](#) [Download ▾](#)

Allow creation of persistent caches after server is started

2e1cb2b8495761a7e9abc09ebca24ca6bbf2afbe switches from Ehcache to Guava for providing caching in Gerrit and claims that one of the advantages of using Guava is that it enables caches to be built at any time, rather than only at server startup. Therefore, I guess it is OK to remove the precondition check which prevents creation of caches once the server was started.

This enables plugins to create own persistent caches when they are installed.

Change-Id: I28b1a140c58f9967e6d1dacd61ddd021b48c8ad5

Owner: Saša Živkov

Reviewers: Diffy Cuckoo (Automated Verifier) [Add...](#)

Shawn Pearce

Project: gerrit

Branch: master

Topic:

Strategy: Merge if Necessary

Updated: 2 days ago

[Cherry Pick](#) [Rebase](#) [Abandon](#)

Conflicts With (3)

- Make dependency resolver plugins aware
- PluginLoader: Allow to define dependencies between plugins
- Refactor JsPlugin to support generic scripting plugins.

Code-Review

Verified +1 Diffy Cuckoo (Automated Verifier)

History

[Expand All](#)

Author	Message	Date
Saša Živkov	Uploaded patch set 1.	02/25/14 16:28
Shawn Pearce	Patch Set 1: Code-Review-1	02/25 16:37
(3 comments)		02/26 17:58 ↗

Commit Message

Line 17: When a plugin stops it should close the H2CacheImpl to release the JDBC connections, rather than leaking them. But this may not matter with H2. It might be fine to leak those handles and simply let the Java GC clean them up.

Line 50: Nit: There appears to be 3 spaces at the start of this line. While you are here can you fix it?

Line 159: The caches list is not thread-safe. We cannot safely add an entry after startup unless access is synchronized.

Inline Comments - with links

The Expand All button expands all messages; the Collapse All button collapses all messages.

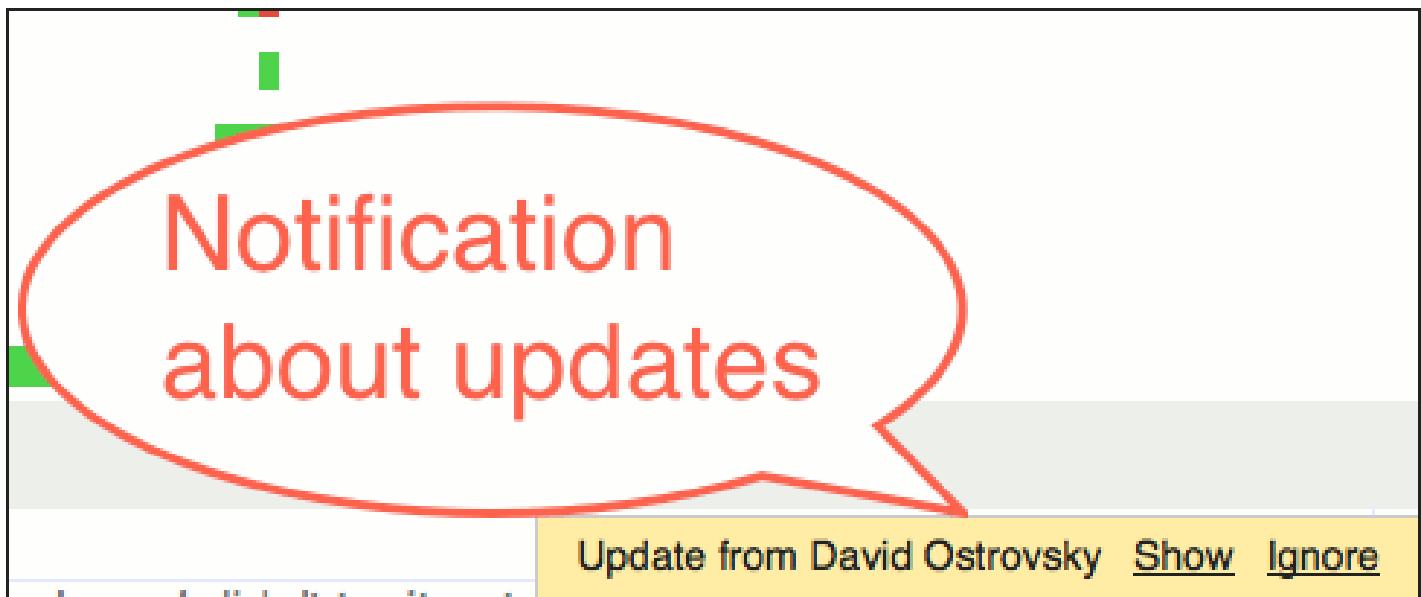
Update Notification

[related changes](#)

[Search](#)

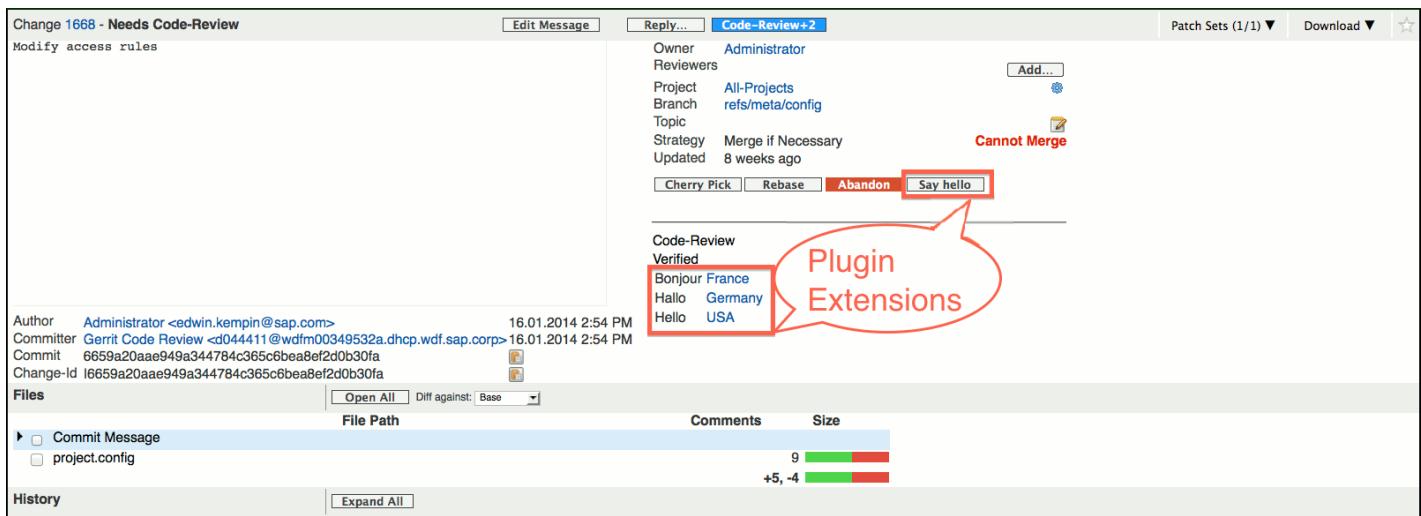
The change screen automatically polls for updates to the currently viewed change. If there is an update the user is informed by a popup panel in the bottom right corner.

The polling frequency depends on the server configuration; by default it is 30 seconds. Polling may also be completely disabled by the administrator.



Plugin Extensions

Gerrit plugins may extend the change screen; they can add buttons for additional actions to the change info block and display arbitrary UI controls below the change info block.



Side-by-Side Diff Screen

The side-by-side diff screen shows a single patch; the old file version is displayed on the left side of the screen; the new file version is displayed on the right side of the screen.

This screen allows to review a patch and to comment related changes

Search

In the screen header the project name and the name of the viewed patch file are shown.

If a Git web browser is configured on the server, the project name and the file path are displayed as links to the project and the folder in the Git web browser.

The checkbox in front of the project name and the related changes has been checked. The Mark Reviewed diff preference allows to control whether the files should be automatically marked as reviewed when they are viewed.

The scrollbar shows patch diffs and inline comments as annotations. This provides a good overview of the lines in the patch that are relevant for reviewing. By clicking on an annotation one can quickly navigate to the corresponding line in the patch.

A gap between lines in the file content that is caused by aligning the left and right side or by displaying inline comments is shown as a vertical red bar in the line number column. This prevents a gap from being mistaken for blank lines in the file

gitiles / gitiles-servlet/src/main/java/com/google/gitiles/LogServlet.java

Patch Set Base 1 2 3 4 5 6 7 ⚡ ... skipped 10 common lines ...

```
11 // WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
12 // See the License for the specific language governing permissions and
13 // limitations under the License.
14
15 package com.google.gitiles;
16
17 import static com.google.common.base.Preconditions.checkNotNull;
18 import static javax.servlet.http.HttpServletResponse.SC_INTERNAL_SERVER_ERROR;
19 import static javax.servlet.http.HttpServletResponse.SC_NOT_FOUND;
20
21 import com.google.common.base.Optional;
22 import com.google.common.base.Strings;
23 import com.google.common.collect.Iterables;
24 import com.google.common.collect.ListMultimap;
25 import com.google.common.collect.Lists;
26 import com.google.common.collect.Maps;
27 import com.google.common.primitives.Longs;
28 import com.google.gson.reflect.TypeToken;
29
30 import org.eclipse.jgit.errors.IncorrectObjectTypeException;
31           ... skipped 24 common lines ...
32
33 import java.util.Map;
34
35 import javax.servlet.*;
36 import javax.servlet.http.HttpServlet;
37 import javax.servlet.http.HttpServletRequest;
38 import javax.servlet.http.HttpServletResponse;
39
40 /**
41 * A HttpServlet that handles log requests.
42 */
43 public class LogServlet extends HttpServlet {
44     private static final long serialVersionUID = 1L;
45     private static final Logger log = LoggerFactory.getLogger(LogServlet.class);
46
47     private final Linkifier linkifier;
48
49     public LogServlet(Renderer renderer, Linkifier linkifier) {
50         super(renderer);
51
52         this.linkifier =.checkNotNull(linkifier, "linkifier");
53     }
54
55     @Override
56     protected void doGetHtml(HttpServletRequest req, HttpServletResponse res) throws IOException {
57         Repository repo = ServeltUtils.getRepository(req);
58         GitilesView view = getView(req, repo);
59         Paginator paginator = newPaginator(repo, view);
60         if (paginator == null) {
61             res.setStatus(SC_NOT_FOUND);
62             return;
63         }
64
65         static final String LIMIT_PARAM = "n";
66         static final String START_PARAM = "s";
67         private static final int DEFAULT_LIMIT = 100;
68         private static final int MAX_LIMIT = 10000;
69
70         private final Linkifier linkifier;
71
72         public LogServlet(Renderer renderer, Linkifier linkifier) {
73             super(renderer);
74
75             this.linkifier =.checkNotNull(linkifier, "linkifier");
76         }
77
78         @Override
79         protected void doGetHtml(HttpServletRequest req, HttpServletResponse res) throws IOException {
80             Repository repo = ServeltUtils.getRepository(req);
81             GitilesView view = getView(req, repo);
82             Paginator paginator = newPaginator(repo, view);
83             if (paginator == null) {
84                 res.setStatus(SC_NOT_FOUND);
85             } else {
86                 Map<String, Object> params = Maps.newHashMap();
87                 params.put("repo", repo);
88                 params.put("view", view);
89                 params.put("paginator", paginator);
90                 params.put("linkifier", linkifier);
91                 params.put("renderer", renderer);
92                 params.put("accessFactory", accessFactory);
93                 params.put("startParam", START_PARAM);
94                 params.put("limitParam", LIMIT_PARAM);
95                 params.put("maxLimit", MAX_LIMIT);
96                 params.put("defaultLimit", DEFAULT_LIMIT);
97
98                 String templateName = getTemplateName(GitilesAccess.access);
99                 String command = "log";
100                String soyTemplate = "gitiles.logDetail";
101
102                String result = renderer.render(templateName, command, soyTemplate, params);
103                res.getWriter().write(result);
104            }
105        }
106    }
107
108    private static String getTemplateName(GitilesAccess access) throws IOException {
109        return Objects.requireNonNull(
110            access.getConfig().getString("command", "log", "soyTemplate"),
111            "gitiles.logDetail");
112    }
113
114    static final String LIMIT_PARAM = "n";
115    static final String START_PARAM = "s";
116    private static final int DEFAULT_LIMIT = 100;
117    private static final int MAX_LIMIT = 10000;
118
119    private final GitilesAccess.Factory accessFactory;
120    private final Linkifier linkifier;
121
122    public LogServlet(GitilesAccess.Factory accessFactory, Renderer renderer, Linkifier linkifier) {
123        super(renderer);
124        this.accessFactory = checkNotNull(accessFactory, "accessFactory");
125        this.linkifier = checkNotNull(linkifier, "linkifier");
126    }
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128    @Override
129    protected void doGetHtml(HttpServletRequest req, HttpServletResponse res) throws IOException {
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146            params.put("defaultLimit", DEFAULT_LIMIT);
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148            String templateName = getTemplateName(GitilesAccess.access);
149            String command = "log";
150            String soyTemplate = "gitiles.logDetail";
151
152            String result = renderer.render(templateName, command, soyTemplate, params);
153            res.getWriter().write(result);
154        }
155    }
156}

```

Red Bar to visualize Gap between Lines

Patch Set 1 2 3 4 5 6 7 ⚡ ... skipped 10 common lines ...

```
11 // WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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14
15 package com.google.gitiles;
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17 import static com.google.common.base.Preconditions.checkNotNull;
18 import static javax.servlet.http.HttpServletResponse.SC_INTERNAL_SERVER_ERROR;
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21 import com.google.common.base.Optional;
22 import com.google.common.base.Strings;
23 import com.google.common.collect.Iterables;
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25 import com.google.common.collect.Lists;
26 import com.google.common.collect.Maps;
27 import com.google.common.primitives.Longs;
28 import com.google.gson.reflect.TypeToken;
29
30 import org.eclipse.jgit.errors.IncorrectObjectTypeException;
31           ... skipped 24 common lines ...
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33 import java.util.Map;
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35 import javax.servlet.*;
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40 /**
41 * A HttpServlet that handles log requests.
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102                res.getWriter().write(result);
103            }
104        }
105    }
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107    private static String getTemplateName(GitilesAccess access) throws IOException {
108        return Objects.requireNonNull(
109            access.getConfig().getString("command", "log", "soyTemplate"),
110            "gitiles.logDetail");
111    }
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113    static final String LIMIT_PARAM = "n";
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118    private final GitilesAccess.Factory accessFactory;
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121    public LogServlet(GitilesAccess.Factory accessFactory, Renderer renderer, Linkifier linkifier) {
122        super(renderer);
123        this.accessFactory = checkNotNull(accessFactory, "accessFactory");
124        this.linkifier = checkNotNull(linkifier, "linkifier");
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149
150            String result = renderer.render(templateName, command, soyTemplate, params);
151            res.getWriter().write(result);
152        }
153    }
154}

```

Shawn Pearce We should get logDetail worked into this somehow. logDetail for the ... 03/10/17:34
Stefan Zager I defer to your judgement. Changing the subsection to "logDetail" me... 03/11/21:32

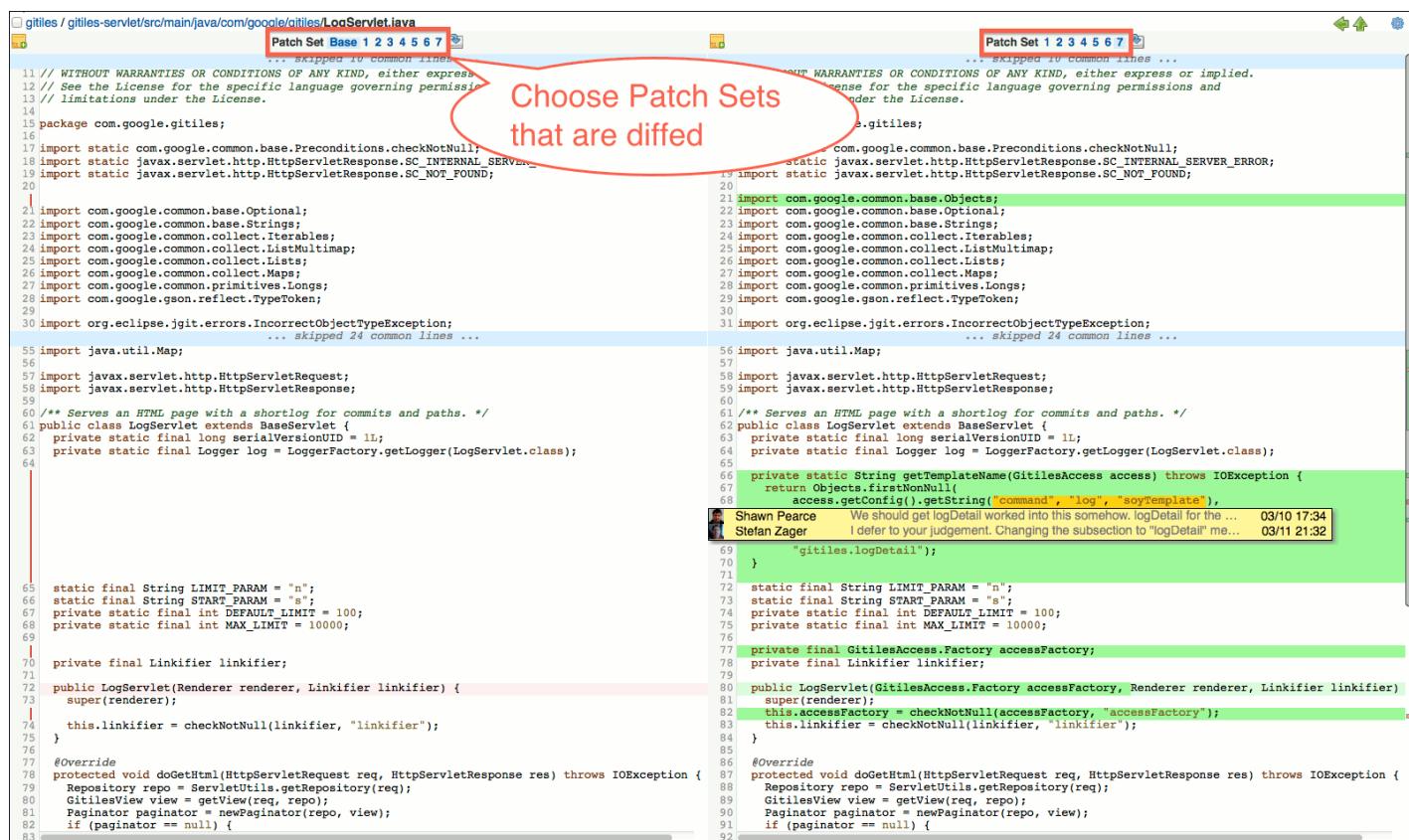
In the header, on each side, the list of patch sets is related changes

the search

selection for the patch set comparison and the screen is refreshed to show the diff between the selected patch sets. The currently selected patch set is highlighted by a light blue background.

On the left side `Base` can be selected to compare a patch set against its base. For merge commits `Auto Merge` is available instead which allows to compare the patch against the result of the auto merge. The auto merge version may contain Git conflict markers and is useful for reviewing how conflicts are resolved by a patch.

Reviewers that are reviewing a patch for the first time look at its diff against its base; reviewers that have reviewed an old patch version before, may see what has changed since that version by comparing the old patch against the current patch.



Choose Patch Sets
that are diffed

```
gitiles / gitiles-servlet/src/main/java/com/google/gitiles/LogServlet.java
Patch Set Base 1 2 3 4 5 6 7
...
Patch Set 1 2 3 4 5 6 7
...
1 // WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express
2 // See the License for the specific language governing permissions and
3 // limitations under the License.
4
5 package com.google.gitiles;
6
7 import static com.google.common.base.Preconditions.checkNotNull;
8 import static javax.servlet.http.HttpServletResponse.SC_INTERNAL_SERVER_ERROR;
9 import static javax.servlet.http.HttpServletResponse.SC_NOT_FOUND;
10
11 import com.google.common.base.Optional;
12 import com.google.common.base.Strings;
13 import com.google.common.collect.Iterables;
14 import com.google.common.collect.ListMultimap;
15 import com.google.common.collect.Lists;
16 import com.google.common.collect.Maps;
17 import com.google.common.primitives.Longs;
18 import com.google.gson.reflect.TypeToken;
19
20 import org.eclipse.jgit.errors.IncorrectObjectTypeException;
21 ...
22 import java.util.Map;
23
24 /**
25  * Serves an HTML page with a shortlog for commits and paths.
26 */
27 public class LogServlet extends BaseServlet {
28     private static final long serialVersionUID = 1L;
29     private static final Logger log = LoggerFactory.getLogger(LogServlet.class);
30
31     ...
32
33     static final String LIMIT_PARAM = "n";
34     static final String START_PARAM = "s";
35     private static final int DEFAULT_LIMIT = 100;
36     private static final int MAX_LIMIT = 10000;
37
38     private final Linkifier linkifier;
39
40     public LogServlet(Renderer renderer, Linkifier linkifier) {
41         super(renderer);
42
43         this.linkifier = checkNotNull(linkifier, "linkifier");
44     }
45
46     @Override
47     protected void doGetHtml(HttpServletRequest req, HttpServletResponse res) throws IOException {
48         Repository repo = ServletUtils.getRepository(req);
49         GitilesView view = getView(req, repo);
50         Paginator paginator = newPaginator(repo, view);
51         if (paginator == null) {
52             ...
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55             ...
56             ...
57             ...
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```

gitiles / gitiles-servlet/src/main/java/com/google/gitiles/LogServlet.java

Patch Set Base 1 2 3 4 5 6 7 8 9 10 11

```

1 // Copyright 2012 Google Inc. All Rights Reserved.
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10 // distributed under the License is distributed on an "AS IS" BASIS,
11 // WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
12 // See the License for the specific language governing permissions and
13 // limitations under the License.
14
15 package com.google.gitiles;
16
17 import static com.google.common.base.Preconditions.checkNotNull;
18 import static javax.servlet.http.HttpServletResponse.SC_INTERNAL_SERVER_ERROR;
19 import static javax.servlet.http.HttpServletResponse.SC_NOT_FOUND;
20
21 import com.google.common.base.Optional;
22 import com.google.common.base.Strings;
23 import com.google.common.collect.Iterables;
24 import com.google.common.collect.ListMultimap;
25 import com.google.common.collect.Lists;
26 import com.google.common.collect.Maps;
27 import com.google.common.primitives.Longs;
28 import com.google.gson.reflect.TypeToken;
29
30 import org.eclipse.jgit.errors.IncorrectObjectTypeException;
31 import org.eclipse.jgit.errors.MissingObjectException;
32 import org.eclipse.jgit.errors.RevWalkException;
33 import org.eclipse.jgit.http.server.ServletUtils;
34 import org.eclipse.jgit.lib.AbbreviatedObjectId;
35 import org.eclipse.jgit.lib.Constants;
36 import org.eclipse.jgit.lib.ObjectId;
37 import org.eclipse.jgit.lib.ObjectReader;
38 import org.eclipse.jgit.lib.Repository;
39 import org.eclipse.jgit.lib.Repository;
40 import org.eclipse.jgit.revwalk.RevCommit;
41 import org.eclipse.jgit.revwalk.RevObject;
42 import org.eclipse.jgit.revwalk.RevTag;
43 import org.eclipse.jgit.revwalk.RevWalk;
44 import org.eclipse.jgit.treewalk.filter.AndTreeFilter;
45 import org.eclipse.jgit.treewalk.filter.PathFilter;
46 import org.eclipse.jgit.treewalk.filter.TreeFilter;
47 import org.eclipse.jgit.util.GitDateFormatter;
48 import org.eclipse.jgit.util.GitDateFormatter.Format;
49 import org.slf4j.Logger;
50 import org.slf4j.LoggerFactory;
51
52 import java.io.IOException;
53 import java.util.Collection;
54 import java.util.List;
55 import java.util.Map;
56
57 import javax.servlet.http.HttpServletRequest;
58 import javax.servlet.http.HttpServletResponse;
59
60 /** Serves an HTML page with a shortlog for commits and paths. */
61 public class LogServlet extends BaseServlet {
62     private static final long serialVersionUID = 1L;
63     private static final Logger log = LoggerFactory.getLogger(LogServlet.class);
64 }
65

```

related changes

Highlighting if the compared Patches are identical.

If a file was renamed, the old and new file paths are shown in the header together with a similarity index that shows how much of the file content is unmodified.

gergit / gergit-gwtui/src/main/java/com/google/gerrit/client/change/ChangeConstants.java

Patch Set 1 2 3

```

similarity index 93%
rename from gergit-gwtui/src/main/java/com/google/gerrit/client/change/Constants.java
rename to gergit-gwtui/src/main/java/com/google/gerrit/client/change/ChangeConstants.java
... skipped 6 common lines ...
http://www.apache.org/licenses/LICENSE-2.0
...

```

Old and New Paths for Renames

```

... skipped 17 common lines ...
15 package com.google.gerrit.client.change;
16
17 import com.google.gwt.i18n.client.Constants;
18
19 interface ChangeConstants extends Constants {
20     String previousChange();
21     String nextChange();
22     String openChange();
23     String reviewedFileTitle();
24
25     String openLastFile();
26     String openCommitMessage();
27
28     String patchSet();
29     String commit();
... skipped 17 common lines ...

```

For navigating between the patches in a patch set there are navigation buttons on the right side of the screen header. The left arrow button navigates to the previous patch; the right arrow button navigates to the next patch. The arrow up button leads back to the change screen. In all cases the selection for the patch set comparison is kept.

The screenshot shows a diff interface for a Java file named LogServlet.java. The code is presented in two columns: 'Patch Set Base' and 'Patch Set 1 2 3 4 5 6 7'. The 'Patch Set 1 2 3 4 5 6 7' column contains several inline comments, some of which are highlighted with yellow backgrounds. A red callout box points to the 'related changes' section at the top right, which displays a list of changes from other patches. The callout text reads: 'Navigate between Patches, Go up to Change - Diff Against Selection is kept'.

```

1 // WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
2 // See the License for the specific language governing permissions and
3 // limitations under the License.
4
5 package com.google.gitiles;
6
7 import static com.google.common.base.Preconditions.checkNotNull;
8 import static javax.servlet.http.HttpServletResponse.SC_INTERNAL_SERVER_ERROR;
9 import static javax.servlet.http.HttpServletResponse.SC_NOT_FOUND;
10
11 // ... skipped 10 common lines ...
12
13 /**
14  * Serves an HTML page with a shortlog for commits and paths.
15  */
16 public class LogServlet extends BaseServlet {
17     private static final long serialVersionUID = 1L;
18     private static final Logger log = LoggerFactory.getLogger(LogServlet.class);
19
20
21     static final String LIMIT_PARAM = "n";
22     static final String START_PARAM = "s";
23     private static final int DEFAULT_LIMIT = 100;
24     private static final int MAX_LIMIT = 10000;
25
26     private final Linkifier linkifier;
27
28     public LogServlet(Renderer renderer, Linkifier linkifier) {
29         super(renderer);
30         this.linkifier = checkNotNull(linkifier, "linkifier");
31     }
32
33     @Override
34     protected void doGetHtml(HttpServletRequest req, HttpServletResponse res) throws IOException {
35         Repository repo = ServletUtils.getRepository(req);
36         GitilesView view = getView(req, repo);
37         Paginator paginator = newPaginator(repo, view);
38         if (paginator == null) {
39
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```

Inline Comments

Inline comments are displayed directly in the patch file under the code that is commented. Inline comments can be placed on lines or on code blocks.

If an inline comment relates to a code block, this code block is highlighted by a yellow background.

Code blocks with comments may overlap. This means it is possible to attach several comments to the same code.

The lines of the patch file are linkable. To link to a certain line in the patch file, '@<line-number>' must be appended to the patch link, e.g.

<http://host:8080/#/c/56857/2/Documentation/user-review-ui.txt@665>. To link to a line in the old file version, '@a<line-number>' must be appended to the patch link. These links can be used to directly link to certain inline comments.

If the diff preference Expand All Comments is set to **Expand**, all inline comments will be automatically expanded.

The screenshot shows a GitHub pull request interface. On the left, the code for `LogServlet.java` is displayed with several annotations:

- A red circle highlights the first few lines of the file, with the text "Inline Comments - on code-blocks" overlaid.
- Annotations on lines 11-13 indicate "skipped 10 common lines ...".
- Annotations on lines 21-30 indicate "skipped 24 common lines ...".

The right side of the interface shows the "related changes" section, which lists a commit from Stefan Zager:

```
Shawn Pearce We should get logDetail worked into this somehow. logDetail for the ... 03/10 17:34
Stefan Zager I defer to your judgement. Changing the subsection to "logDetail" me... 03/11 21:32
```

This commit has a green background and is highlighted with a red border.

In the header of the comment box, the name of the comment author and the timestamp of the comment are shown. If avatars are configured on the server, the avatar image of the comment author is displayed in the top left corner. Below the actual comment there are buttons to reply to the comment.

 **Stefan Zager** 03/11 21:32
I defer to your judgement. Changing the subsection to "logDetail" means there's not a clean abstraction for "all the config items that pertain to the 'log' command." Changing the variable name to "detailSoyTemplate" is wordy and doesn't really buy you anything, since the name of the variable still isn't the same as the name of the template ("logDetail").

But it's such a nice shed, it would be such a shame to pick the wrong color...

Clicking on the **Reply** button opens an editor to type the reply.

Quoting is supported, but only by manually copying & pasting the old comment that should be quoted and prefixing every line by "> ". Please note that for a correct rendering it is important to leave a blank line between a quoted block and the reply to it.

Clicking on the **Save** button saves the comment as a draft. To make it visible to other users it must be published from the change screen by replying to the change.

The **Cancel** button cancels the editing and discards any changes to the draft comment.

Clicking on the **Discard** button deletes the inline draft comment.

**Stefan Zager**[related changes](#)23:32 [Search](#)

I defer to your judgement. Changing the subsection to "logDetail" means there's not a clean abstraction for "all the config items that pertain to the 'log' command." Changing the variable name to "detailSoyTemplate" is wordy and doesn't really buy you anything, since the name of the variable still isn't the same as the name of the template ("logDetail").

But it's such a nice shed, it would be such a shame to pick the wrong color...

Draft

> But it's such a nice shed, it would be such a shame to pick the wrong color...

I think the name of the variable is not that important.

[Save](#)[Discard](#)

Draft comments are marked by the text "Draft" in the header in the place of the comment author.

A draft comment can be edited by clicking on the `Edit` button, or deleted by clicking on the `Discard` button.

**Stefan Zager**

03/11 21:32

I defer to your judgement. Changing the subsection to "logDetail" means there's not a clean abstraction for "all the config items that pertain to the 'log' command." Changing the variable name to "detailSoyTemplate" is wordy and doesn't really buy you anything, since the name of the variable still isn't the same as the name of the template ("logDetail").

But it's such a nice shed, it would be such a shame to pick the wrong color...

Draft

16:21

| But it's such a nice shed, it would be such a shame to pick the wrong color...

I think the name of the variable is not that important.

[Edit](#)[Discard](#)

Clicking on the `Done` button is a quick way to reply with "Done" to a comment. This is used to mark a comment as addressed by a follow-up patch set.

**Stefan Zager**

03/11 21:32

I defer to your judgement. Changing the subsection to "logDetail" means there's not a clean abstraction for "all the config items that pertain to the 'log' command." Changing the variable name to "detailSoyTemplate" is wordy and doesn't really buy you anything, since the name of the variable still isn't the same as the name of the template ("logDetail").

But it's such a nice shed, it would be such a shame to pick the wrong color...

Draft**Done**

08:24

To add a new inline comment there are several possibilities:

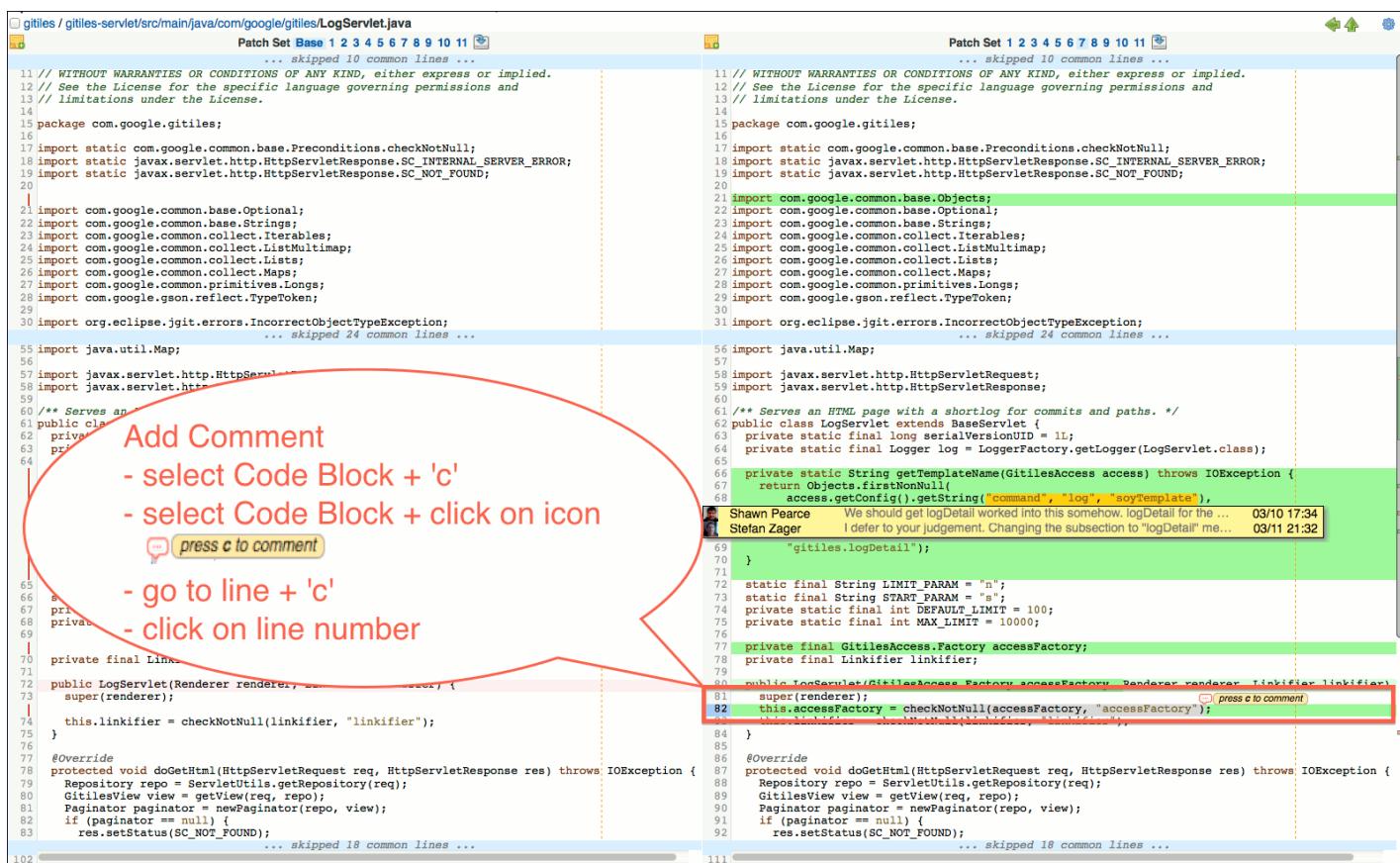
- select a code block and press 'c'

- select a code block and click on the popup com related changes
 - go to a line, by clicking on it or by key navigation, and press 'c'
 - click on a line number

Search

There are many ways to select code for commenting on it. The most frequently used methods are:

- by mouse:
 - click and drag with the mouse to select a block
 - double-click on a word to select it
 - double-click and drag with the mouse to select a code block word-wise
 - triple-click on a line to select it
 - triple-click and drag with the mouse to select a code block line-wise
 - by keys (the same keys that are used for visual selection in Vim):
 - press 'v' + arrow keys (or 'h', 'j', 'k', 'l') to select a block
 - press 'V' + arrow keys (or 'j', 'k') to select a code block line-wise
 - type 'bw' to select a word



For typing the new comment, a new comment box will appear below the related changes. You can type your comment in the box and click the "Comment" button to add it.

Search

Clicking on the **Save** button saves the new comment as a draft. To make it visible to other users it must be published from the change screen by replying to the change.

Clicking on the **Discard** button deletes the new comment.

The screenshot shows a code review interface comparing two versions of the `LogServlet.java` file. The left pane displays the original code, and the right pane shows the updated code with various changes highlighted in blue. A red oval highlights a comment from Stefan Zager in the left margin:

Shawn Pearce We should get logDetail worked into this somehow. logDetail for the ... 03/10 17:34
Stefan Zager I defer to your judgement. Changing the subsection to "logDetail" me... 03/11 21:32

A yellow box highlights a draft comment from Shawn Pearce in the right margin:

Draft
Is it at all possible that 'accessFactory' is null?
Save Discard

Below the code panes, a status bar indicates skipped common lines: "... skipped 24 common lines ..." on the left and "... skipped 18 common lines ..." on the right.

File Level Comments

Comments that apply to a whole file can be added on file level.

File level comments are added by clicking on the comment icon in the header above the file.

gitiles / gitiles-servlet/src/main/java/com/google/gitiles/LogServlet.java

Patch Set Base 1 2 3 4 5 6 7

... skipped 10 common lines ...

```

11 // WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
12 // See the License for the specific language governing permissions and
13 // limitations under the License.
14
15 package com.google.gitiles;
16
17 import static com.google.common.base.Preconditions.checkNotNull;
18 import static javax.servlet.http.HttpServletResponse.SC_INTERNAL_SERVER_ERROR;
19 import static javax.servlet.http.HttpServletResponse.SC_NOT_FOUND;
20
21 import com.google.common.base.Optional;
22 import com.google.common.base.Strings;
23 import com.google.common.collect.Iterables;
24 import com.google.common.collect.ListMultimap;
25 import com.google.common.collect.Lists;
26 import com.google.common.collect.Maps;
27 import com.google.common.primitives.Longs;
28 import com.google.gson.reflect.TypeToken;
29
30 import org.eclipse.jgit.errors.IncorrectObjectTypeException;
31
32 import java.util.Map;
33
34 import javax.servlet.http.HttpServletRequest;
35 import javax.servlet.http.HttpServletResponse;
36
37 /**
38  * Serves an HTML page with a shortlog for commits and paths.
39  */
40 public class LogServlet extends BaseServlet {
41     private static final long serialVersionUID = 1L;
42     private static final Logger log = LoggerFactory.getLogger(LogServlet.class);
43
44
45     static final String LIMIT_PARAM = "n";
46     static final String START_PARAM = "s";
47     private static final int DEFAULT_LIMIT = 100;
48     private static final int MAX_LIMIT = 10000;
49
50     private final Linkifier linkifier;
51
52     public LogServlet(Renderer renderer, Linkifier linkifier) {
53         super(renderer);
54
55         this.linkifier =.checkNotNull(linkifier, "linkifier");
56     }
57
58     @Override
59     protected void doGetHtml(HttpServletRequest req, HttpServletResponse res) throws IOException {
60         Repository repo = ServletUtils.getRepository(req);
61         GitilesView view = getView(req, repo);
62         Paginator paginator = newPaginator(repo, view);
63         if (paginator == null) {
64
65             static final String LIMIT_PARAM = "n";
66             static final String START_PARAM = "s";
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```

For searching within a patch file, a Vim-like search related changes

Search

box. Typing in the search box immediately highlights matches in the patch file with a yellow background. Using JavaScript regular expressions in the search term is supported. The search is case insensitive. After confirming the search by `ENTER` one can navigate between the matches by `n` / `N` to go to the next / previous match. Skipped lines are automatically expanded if they contain a match and one navigates to it.

For additional possibilities to search please check the [Vim documentation](#)

(<http://www.vim.org/docs.php>). There are other useful ways to search, e.g. while the cursor is on a word, pressing * or # searches for the next or previous occurrence of the word.

Searching by **Ctrl-F** finds matches only in the visible area of the screen unless the Render diff preference is set to **Slow**.

gitiles / gitiles-server/src/main/java/com/google/gitiles/LogServlet.java

Patch Set Base 1 2 3 4 5 6 7 8 9 10 11 ⌂ (Javascript regexp)

... skipped 10 common lines ...

// WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
// See the License for the specific language governing permissions and
// limitations under the License.

14
15 package com.google.gitiles;
16
17 import static com.google.common.base.Preconditions.checkNotNull;
18 import static javax.servlet.http.HttpServletResponse.SC_INTERNAL_SERVER_ERROR;
19 import static javax.servlet.http.HttpServletResponse.SC_NOT_FOUND;
20
21 import com.google.common.base.Optional;
22 import com.google.common.base.Strings;
23 import com.google.common.collect.Iterables;
24 import com.google.common.collect.ListMultimap;
25 import com.google.common.collect.Lists;
26 import com.google.common.collect.Maps;
27 import com.google.common.primitives.Longs;
28 import com.google.gson.reflect.TypeToken;
29
30 import org.eclipse.jgit.errors.IncorrectObjectTypeException;
... skipped 24 common lines ...
55
56 import java.util.Map;
57
58 import javax.servlet.http.HttpServletRequest;
59 import javax.servlet.http.HttpServletResponse;
60
61 /** Serves an HTML page with a shortlog for commits and paths. */
62 public class LogServlet extends BaseServlet {
63 private static final long serialVersionUID = 1L;
64 private static final Logger log = LoggerFactory.getLogger(LogServlet.class);
65
66 static final String LIMIT_PARAM = "n";
67 static final String START_PARAM = "s";
68 private static final int DEFAULT_LIMIT = 100;
69 private static final int MAX_LIMIT = 10000;
70
71 private final Linkifier linkifier;
72 public LogServlet(Renderer renderer, Linkifier linkifier) {
super(renderer);
this.linkifier = checkNotNull(linkifier, "linkifier");
}
73
74
75 #Override
protected void doGetHtml(HttpServletRequest req, HttpServletResponse res) throws IOException {
76 Repository repo = ServiceUtil.getRepository(req);
77 GitilesView view = getView(req, repo);
78 Paginator paginator = newPaginator(repo, view);
79 if (paginator == null) {
res.setStatus(SC_NOT_FOUND);
... skipped 18 common lines ...
102
103 String title = "Log - ";
104 if (view.getOldRevision() != Revision.NULL) {
title += view.getRevisionRange();
} else {
title += view.getRevision().getName();
}
105
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112 String title = "Log - ";
113 if (view.getOldRevision() != Revision.NULL) {
title += view.getRevisionRange();
} else {
title += view.getRevision().getName();
}
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Key Navigation

Vim-like commands can be used to navigate within a patch file:

- h / j / k / l moves the cursor left / down / up / right
 - 0 / \$ moves the cursor to the start / end of the line
 - gg / G moves to cursor to the start / end of the file
 - Ctrl-D / Ctrl-U scrolls downwards / upwards

Diff Preferences

There are several options to control how patch diffs should be rendered. Users can configure their preferences in the diff preferences. The diff preferences can be accessed by clicking on the settings icon in the screen header.

The diff preferences popup allows to change the diff preferences. By clicking on the Save button changes to the diff preferences are saved permanently. Clicking on the Apply button applies the new diff preferences to the current screen, but they are discarded when the screen is refreshed. The Save button is only available if the user is signed in.

Diff Preferences**Close**

Theme	default
Ignore Whitespace	None
Tab Width	8
Columns	100
Lines of Context	10 or <input type="checkbox"/> entire file
Intraline Difference	Show
Syntax Highlighting	Show
Language	
Whitespace Errors	Show
Show Tabs	Show
Line Numbers	Show
Empty Pane	Show
Left Side	Show
Top Menu	Show
Auto Hide Diff Table Header	Yes
Mark Reviewed	Automatic
Expand All Comments	Collapse
Render	Fast

Apply**Save**

The following diff preferences can be configured:

- Theme :

E.g. users could choose to work with a dark theme.

gitiles / gitiles-servlet/src/main/java/com/google/gitiles/LogServlet.java

Patch Set Base 1 2 3 4 5 6 7

```
// Copyright 2012 Google Inc. All Rights Reserved.  
//  
// Licensed under the Apache License, Version 2.0 (the "License");  
// you may not use this file except in compliance with the License.  
// You may obtain a copy of the License at  
//  
// http://www.apache.org/licenses/LICENSE-2.0  
//  
// Unless required by applicable law or agreed to in writing, software  
// distributed under the License is distributed on an "AS IS" BASIS,  
// WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.  
// See the License for the specific language governing permissions and  
// limitations under the License.  
//  
package com.google.gitiles;  
  
import static com.google.common.base.Preconditions.checkNotNull;  
import static javax.servlet.http.HttpServletResponse.SC_INTERNAL_SERVER_ERROR;  
import static javax.servlet.http.HttpServletResponse.SC_NOT_FOUND;  
  
import com.google.common.base.Optional;  
import com.google.common.base.Strings;  
import com.google.common.collect.Iterables;  
import com.google.common.collect.Multimap;  
import com.google.common.collect.Lists;  
import com.google.common.collect.Maps;  
import com.google.common.primitives.Longs;  
import com.google.gson.reflect.TypeToken;  
  
import org.eclipse.jgit.errors.IncorrectObjectTypeException;  
... skipped 24 common lines ...  
  
import java.util.Map;  
  
import javax.servlet.http.HttpServletRequest;  
import javax.servlet.http.HttpServletResponse;  
  
/** Serves an HTML page with a shortlog for commits and paths. */  
public class LogServlet extends BaseServlet {  
    private static final long serialVersionUID = 1L;  
    private static final Logger log = LoggerFactory.getLogger(LogServlet.class);  
  
    ...  
  
    static final String LIMIT_PARAM = "n";  
    static final String START_PARAM = "s";  
    private static final int DEFAULT_LIMIT = 100;  
    private static final int MAX_LIMIT = 10000;  
  
    ...  
    private final Linkifier linkifier;  
  
    public LogServlet(Renderer renderer, Linkifier linkifier) {  
        super(renderer);  
    }  
}
```

// Copyright 2012 Google Inc. All Rights Reserved.
//
// Licensed under the Apache License, Version 2.0 (the "License");
// you may not use this file except in compliance with the License.
// You may obtain a copy of the License at
//
// http://www.apache.org/licenses/LICENSE-2.0
//
// Unless required by applicable law or agreed to in writing, software
// distributed under the License is distributed on an "AS IS" BASIS,
// WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
// See the License for the specific language governing permissions and
// limitations under the License.
//
package com.google.gitiles;

import static com.google.common.base.Preconditions.checkNotNull;
import static javax.servlet.http.HttpServletResponse.SC_INTERNAL_SERVER_ERROR;
import static javax.servlet.http.HttpServletResponse.SC_NOT_FOUND;

import com.google.common.base.Optional;
import com.google.common.base.Strings;
import com.google.common.collect.Iterables;
import com.google.common.collect.Multimap;
import com.google.common.collect.Lists;
import com.google.common.collect.Maps;
import com.google.common.primitives.Longs;
import com.google.gson.reflect.TypeToken;

import org.eclipse.jgit.errors.IncorrectObjectTypeException;
... skipped 24 common lines ...

import java.util.Map;

import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;

/** Serves an HTML page with a shortlog for commits and paths. */
public class LogServlet extends BaseServlet {
 private static final long serialVersionUID = 1L;
 private static final Logger log = LoggerFactory.getLogger(LogServlet.class);

 private static String getTemplateName(GitilesAccess access) throws IOException {
 return Objects.requireNonNull(access.getConfig().getString("log", "soyTemplate"));
 }
 ...
 static final String LIMIT_PARAM = "n";
 static final String START_PARAM = "s";
 private static final int DEFAULT_LIMIT = 100;
 private static final int MAX_LIMIT = 10000;

 ...
 private final GitilesAccess.Factory accessFactory;
 private final Linkifier linkifier;

 public LogServlet(Renderer renderer, GitilesAccess.Factory accessFactory, Renderer renderer, Linkifier linkifier)
 ...
 this.accessfactory = checkNotNull(accessfactory, "accessfactory");
}

Dark Theme

Stephen Haas We should get logDetail worked into this somehow, logDetail for the ... 10:10 1/2/23
Stefan Zaugg I defer to your judgement. Changing the subsection to "logDetail" me... 10:12 1/2/23

Dark Theme

- Ignore Whitespace:

Controls whether differences in whitespace should be ignored or not.

- o None :

All differences in whitespace are highlighted.

- At Line End:

Whitespace differences at the end of lines are ignored.

- #### o Leading, At Line End:

Whitespace differences at the beginning and end of lines are ignored.

- o All:

All differences in whitespace are ignored.

- Tab Width:

Controls how many spaces should be displayed for a tab.

- Columns :

Sets the preferred line length. At this position a vertical dashed line is displayed so that one can easily detect lines that exceed the preferred line length.

The screenshot shows a code diff interface with two columns of code. A vertical dashed red line on the left indicates the preferred line length. A red oval highlights this line with the text "Dashed Column Line - shows preferred line length". A green box highlights a comment from Shawn Pearce and Stefan Zager.

```

gitiles / gitiles-servlet/src/main/java/com/google/gitiles/LogServlet.java
Patch Set Base 1 2 3 4 5 6 7
1 // Copyright 2012 Google Inc. All Rights Reserved.
2 //
3 // Licensed under the Apache License, Version 2.0 (the "License");
4 // you may not use this file except in compliance with the License.
5 // You may obtain a copy of the License at
6 //
7 // http://www.apache.org/licenses/LICENSE-2.0
8 //
9 // Unless required by applicable law or agreed to in writing, software
10 // distributed under the License is distributed on an "AS IS" BASIS,
11 // WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
12 // See the License for the specific language governing permissions and
13 // limitations under the License.
14
15 package com.google.gitiles;
16
17 import static com.google.common.base.Preconditions.checkNotNull;
18 import static javax.servlet.http.HttpServletResponse.SC_INTERNAL_SERVER_ERROR;
19 import static javax.servlet.http.HttpServletResponse.SC_NOT_FOUND;
20
21 import com.google.common.base.Optional;
22 import com.google.common.base.Strings;
23 import com.google.common.collect.Iterables;
24 import com.google.common.collect.ListMultimap;
25 import com.google.common.collect.Lists;
26 import com.google.common.collect.Maps;
27 import com.google.common.primitives.Longs;
28 import com.google.gson.reflect.TypeToken;
29
30 import org.eclipse.jgit.errors.IncorrectObjectTypeException;
... skipped 24 common lines ...
55 import java.util.Map;
56
57 import javax.servlet.http.HttpServletRequest;
58 import javax.servlet.http.HttpServletResponse;
59
60 /** Serves an HTML page with a shortlog for commits and paths. */
61 public class LogServlet extends BaseServlet {
62     private static final long serialVersionUID = 1L;
63     private static final Logger log = LoggerFactory.getLogger(LogServlet.class);
64
65     static final String LIMIT_PARAM = "n";
66     static final String START_PARAM = "s";
67     private static final int DEFAULT_LIMIT = 100;
68     private static final int MAX_LIMIT = 10000;
69
70     private final Linkifier linkifier;
71     public LogServlet(Renderer renderer, Linkifier linkifier) {
72         super(renderer);
73         this.linkifier = linkifier;
74     }
75
76     @Override
77     protected void doGet(HttpServletRequest request, HttpServletResponse response)
78             throws ServletException, IOException {
79         response.setContentType("text/html; charset=UTF-8");
80         response.getWriter().println(renderLogDetail(request));
81     }
82
83     private String renderLogDetail(HttpServletRequest request) {
84         Map<String, String> params = new HashMap<String, String>();
85         params.put("limit", String.valueOf(DEFAULT_LIMIT));
86         params.put("start", "0");
87         params.put("sort", "commit");
88         params.put("path", "");
89
90         return renderTemplate("logDetail", params);
91     }
92
93     private String renderTemplate(String templateName, Map<String, String> params) {
94         try {
95             return renderer.renderTemplate(templateName, params);
96         } catch (IOException e) {
97             throw new ServletException("Error rendering template " + templateName, e);
98         }
99     }
100 }

```

Dashed Column Line - shows preferred line length

Shawn Pearce We should get logDetail worked into this somehow. logDetail for the ... 03/10 17:4
 Stefan Zager I defer to your judgement. Changing the subsection to "logDetail" me... 03/10 21:2

- Lines Of Context:

The number of context lines that should be displayed before and after any diff. If the entire file checkbox is selected, the full file is rendered.

Skipped common lines can be expanded by clicking on the placeholder for the skipped lines.

Clicking on "... skipped <n> common lines ..." expands the complete block of skipped lines.

If many lines are skipped there are additional links to expand the context by ten lines before and after the skipped block.

gerit / gerit-server/src/main/java/com/google/gerit/server/git/ReceiveCommits.java

Patch Set 1 2 3 4 5 6 7 8 9 10

```
98 import com.google.gerrit.server.project.ChangeControl;
99 import com.google.gerrit.server.project.ProjectCache;
100 import com.google.gerrit.server.project.ProjectControl;
101 import com.google.gerrit.server.project.ProjectState;
102 import com.google.gerrit.server.project.RefControl;
103 import com.google.gerrit.server.query.change.ChangeData;
104 import com.google.gerrit.server.ssh.SshInfo;
105 import com.google.gerrit.server.util.MagicBranch;
106 import com.google.gerrit.server.util.RequestScopePropagator;
107 import com.google.gerrit.server.util.TimeUtil;
108 import com.google.gerrit.util.cli.CmdlineParser;
109 import com.google.gerrit.util.config.Update;
110 import com.google.gwtorm.serverOrmSession;
111 import com.google.gwtorm.server.ResultSet;
112 import com.google.gwtorm.server.SchemaFactory;
113 import com.google.inject.Inject;
114 import com.google.inject.Provider;
115
116     +109 ... skipped 948 common lines ...
117
118 }
119
120 private static class MagicBranchInput {
121     private static final Splitter COMMAS = Splitter.on(',').omitEmptyStrings();
122
123     final ReceiveCommand cmd;
124     BranchNameKey dest;
125     RefControl ctl;
126     Set<Account.Id> reviewer = Sets.newLinkedHashSet();
127     Set<Account.Id> cc = Sets.newLinkedHashSet();
128
129     List<RevCommit> baseCommit;
130
131
132     @Option(name = "--base", metaVar = "BASE", usage = "merge base of changes")
133     List<Object> base;
134
135     @Option(name = "--topic", metaVar = "NAME", usage = "attach topic to changes")
136     String topic;
137
138     @Option(name = "--draft", usage = "mark new/updated changes as draft")
139     boolean draft;
140
141     @Option(name = "--submit", usage = "immediately submit the change")
142     boolean submit;
143
144     @Option(name = "-r", metaVar = "EMAIL", usage = "add reviewer to changes")
145     void reviewer(Account.Id id) {
146         reviewer.add(id);
147     }
148
149     @Option(name = "--cc", metaVar = "EMAIL", usage = "notify user by CC")
150     void cc(Account.Id id) {
151         cc.add(id);
152     }
153
154     @Option(name = "--publish", usage = "publish new/updated changes")
155     void publish(boolean publish) {
156         draft = !publish;
157     }
158
159     MagicBranchInput(ReceiveCommand cmd) {
160
161 }
```

- Intraline Difference:

Controls whether intraline differences should be highlighted.

gerit / Documentation/intro-change-screen.txt

Patch Set Base 1 2

... skipped 3 common lines ...

4 change screen is deprecated and will be discontinued in one of the next Gerrit releases.

6

7 The design spirit of the new change screen is simplicity: only one patch set is presented on the screen. The list of related changes is always visible and optional elements are moved to pop down boxes.

10

11 This is now not only a facade. The main highlights are under the hood:

12

13 * Old style RPC calls are replaced by the REST API

14 * Most pretty, syntax highlighting library was replaced by CodeMirror

15 * Automatic refresh of open changes

16 * Support to download a patch direct in browser; no local repo is needed

17 * JS API integration: it was never so easy to add change/revision actions or

18 HTML fragments to the UI from a plugin

19

20 This document is intended to help users to switch to the new change screen.

21

22 Further information on the topic can be found in the:

23 link:[https://groups.google.com/forum/#topic/repo-discuss/6Ryzp6AzgE\[](https://groups.google.com/forum/#topic/repo-discuss/6Ryzp6AzgE[)

24 CodeScreen2 thread on the repo-discuss mailing list]

+108 ... skipped 134 common lines ... +108

159 is a draft.

160

161 [[draft-comments]]

162 == Highlight draft comments

163

164 If a patch set has draft comments that weren't published yet, then that patch set is marked on the list in the 'Patch Sets' drop down list. In addition a red 'draft' prefix appears on the filenames in the file table.

165

166 [[codemirror]]

167 == CodeMirror

168

169 On the user preferences page, 'Side By Side' or 'Unified Diff' view can be configured. Use the '/' key to start the CodeMirror search, like in 'vim'.

170

171 Key bindings are not customizable at the moment. They may be added in the future.

172

173 Range comments are supported on CodeMirror's 'Side By Side' screen. Highlight lines with the mouse and then click the bottom-most line number to create a range comment for the highlighted lines. It can also be used to select a region one line to emphasize what the comment is related to.

174

175

176

177

178

179

180

181 Key bindings:

182

183 * j & k : next line / previous line

184 * n & p: next diff chunk / previous diff chunk

185 * J & I : next file / previous file

186 * u: up to change

187 * c: collapse inline comment (focus has to be in codemirror view)

188 * <Shift> + f: search in the current file

189 * <Ctrl> + o: expand or collapse all comments on current line

190 * <Enter> or o: expand or collapse comment

191 * <Esc> or Cancel: comment edit

192 * i: toggle intraline differences

193 * : Show diff preferences

194 * <Ctrl> + s: Save draft comment

195

196 [[reviewers]]

197 == Reviewers

+108 ... skipped 89 common lines ... +108

287 Key bindings: "J" & "K" to navigate between the related changes. "O" to open the currently selected change on one of the related changes tab case.

Patch Set 1 2

... skipped 3 common lines ...

```
4 change screen is deprecated and will be discontinued in one of the next Gerrit
5 releases.
6
7 The design spirit of the new change screen is simplicity: only one patch set is
8 presented on the screen. The list of related changes is always visible and
9 optional elements are moved to pop down boxes.
10
11 This is not only a facelift. The main highlights are under the hood:
12
13 * Old style RPC calls are replaced by the REST API
14 * The code editor interface highlight library was replaced by CodeMirror
15 * Automatic refresh of open changes
16 * Support to download a patch direct in browser; no local repo is needed
17 * JS API integration: it was never so easy to add change/revision actions or
18 HTML fragments to the UI from a plugin
19
20 This document is intended to help users to switch to the new change screen.
21
22 Further information on the topic can be found in the:
23 link:https://groups.google.com/forum/#!topic/repo-discuss/6Ryz9p6AzbE
24 CodeScreen2 thread on the repo-discuss mailing list]
```

+100 ... skipped 134 common lines ... +100

159 is a draft.

160

161 [[draft-comments]]

162 == Highlight draft comments

163

164 If a patch set has draft comments that weren't published yet, then that patch

165 set is marked on the list in the 'Patch Sets' drop down list. In addition a red

166 "draft" prefix appears on the filenames in the file table.

167

168 [[codemirror]]

169 == CodeMirror

170

171 On the user preferences page, 'Side By Side' or 'Unified Diff' view can be

172 configured. Use the '/' key to start the CodeMirror search, like in 'vim'.

173

174 Key bindings are not customizable at the moment. They may be added in the future.

175

176 Range comments are supported on CodeMirror's 'Side By Side' screen. Highlight

177 lines with the mouse and then click the bottom-most line number to create a

178 range comment (focus now on the line in CodeMirror or view)

179 * / or <Ctrl> + f: search in the current file

180 * <Shift> + o: expand or collapse all comments on current line

181 * <Enter> or o: expand or collapse comment

182 * <Esc> or Cancel: comment edit

183 * i: toggle intraline differences

184 * ,: Show diff preferences

185 * <Ctrl> + s: Save draft comment

186

187 [[reviewers]]

188 == Reviewers

+100 ... skipped 89 common lines ... +100

281 Key bindings: "J" & "K" to navigate between the related changes. "O" to

282 open the currently selected change on one of the related_changes tab page.

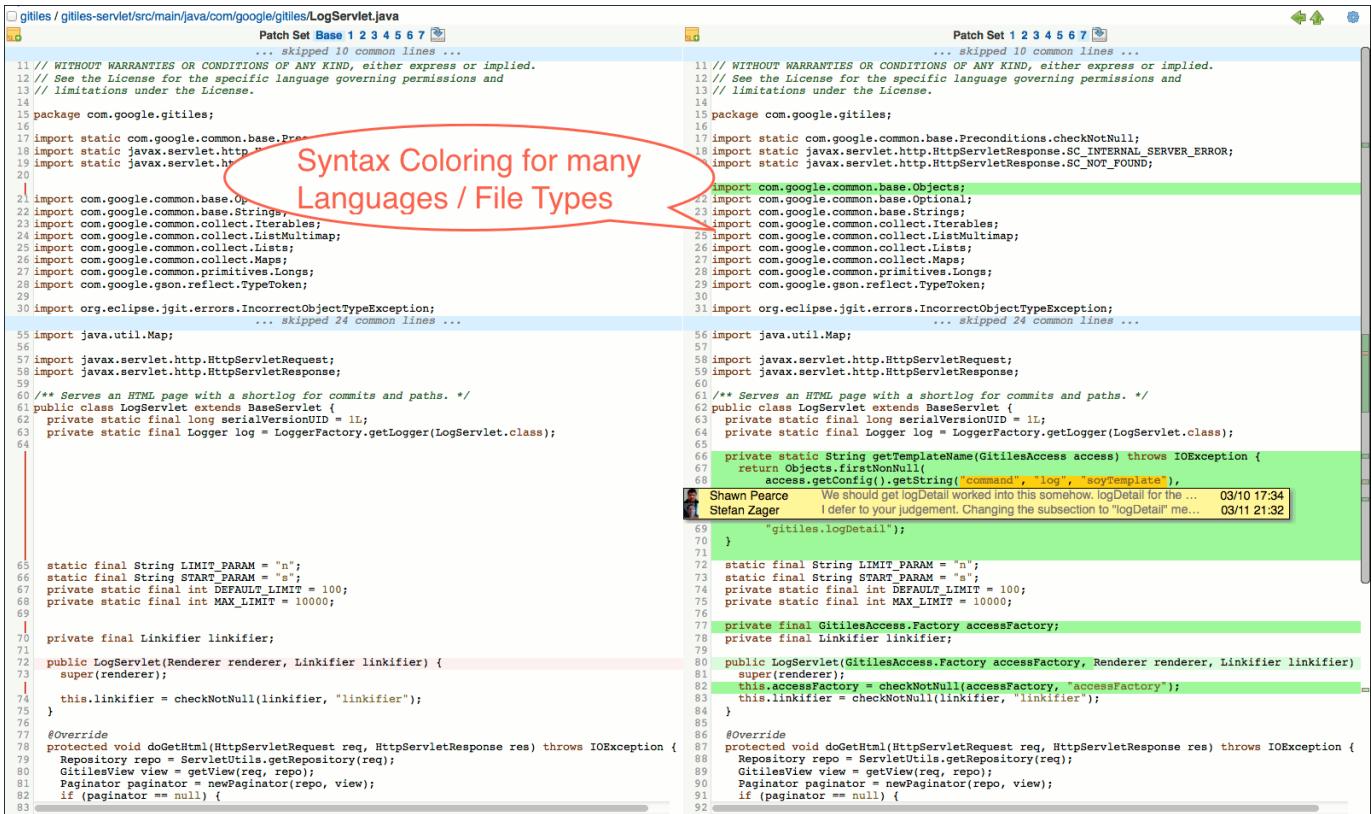
- Syntax Highlighting:

Controls whether syntax highlighting should be enabled.

The language for the syntax highlighting is autorelated changes

Search

The language can also be set manually by selecting it from the Language drop-down list.



• Whitespace Errors:

Controls whether whitespace errors are highlighted.

- Show Tabs :

Controls whether tabs are highlighted.

- Line Numbers:

Controls whether line numbers are shown.

- Empty Pane:

Controls whether empty panes are shown or not. The Left pane is empty when a file was added; the right pane is empty when a file was deleted.

- Left Side:

Controls whether the left side is shown. This preference is not persistent and is ignored by the `Save` button. Every time a patch diff is opened, this preference is reset to `Show`.

- Top Menu :

Controls whether the top menu is shown.

- Auto Hide Diff Table Header :

Controls whether the diff table header should scroll down more than half of a page.

Search

- Mark Reviewed :

Controls whether the files of the patch set should be automatically marked as reviewed when they are viewed.

- Expand All Comments :

Controls whether all comments should be automatically expanded.

- Render :

Controls how patch files that exceed the screen size are rendered.

If `Fast` is selected file contents which are outside of the visible area are not attached to the browser's DOM tree. This makes the rendering fast, but searching by `Ctrl+F` only finds content which is in the visible area.

If `Slow` is selected all file contents are attached to the browser's DOM tree, which makes the rendering slow for large files. The advantage of this setting is that `Ctrl+F` can be used to search in the complete file.

Large files that exceed 4000 lines will not be fully rendered.

- Line Wrapping :

Controls whether to enable line wrapping or not.

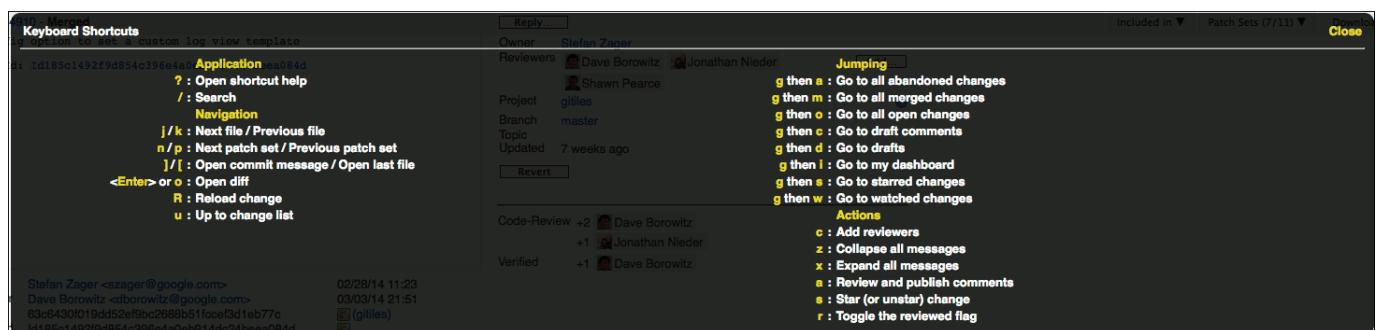
If `false` is selected then line wrapping is disabled. This is the default option.

If `true` is selected then line wrapping is enabled.

Keyboard Shortcuts

Navigation within the review UI can be completely done by keys, and most actions can be controlled by keyboard shortcuts. Typing `?` opens a popup that shows a list of available keyboard shortcuts:

- Change Screen



- Side-by-Side Diff Screen

related changes

Search

```

Keyboard Shortcuts Patch Set Base | 1 2 3 4 5 6 7 8 9 10 11 ⌂ Close
----- // WITHOUT WAR Actions OR CONDITIONS OF ANY KIND, either express or implied.
----- See the License for the specific language governing permissions and
----- limitations under the License.
? : Open shortcut help
/ : Search
Navigation
<Shift> + <Left> / <Shift> + <Right> : Focus left side / Focus right side
<Shift> + n / <Shift> + p : Next comment / Previous comment
n/p : Next diff chunk or search result / Previous diff chunk
j/k : Next line / Previous line
[ : Previous file
<Ctrl> + f : Search
<Shift> + u : Up to change
<Shift> + l : Toggle left side
<Shift> + r : Toggle the reviewed flag
<Shift> + c : Create a new inline comment
<Shift> + o : Expand or collapse all comments on current line
p <Enter> or o : Expand or collapse comment
<Shift> + m : Mark patch as reviewed and go to next unreviewed patch
import static : Reply and score http.HttpServletResponse.SC_INTERNAL_SERVER_ERROR;
import static : Show preferences httpServletResponse.SC_NOT_FOUND;
import static : Show diff preferences httpServletResponse.SC_NOT_FOUND;
import static : Toggle intraline difference
import static : Save draft comment
import static : Cancel comment edit
import static : Comment Editing
import static : ListMultimap
import static : Map
<Shift> + s : Save draft comment
import static : Map
import static : Long
import static : Long
import com.google.gson.reflect.TypeToken;
import org.eclipse.jgit.errors.IncorrectObjectTypeException;
... skipped 24 common lines ...

```

In addition, Vim-like commands can be used to navigate and search within a patch file.

New Review UI vs. Old Review UI

There are some important conceptual differences between the old and new review UIs:

- The old change screen directly shows all patch sets of the change. With the new change screen only a single patch set is displayed; users can switch between the patch sets by choosing another patch set from the Patch Sets drop down panel in the screen header.
- On the old side-by-side diff screen, new comments are inserted by double-clicking on a line. With the new side-by-side diff screen double-click is used to select a word for commenting on it; there are several ways to insert new comments, e.g. by selecting a code block and clicking on the popup comment icon.

Limitations of the new review UI:

- The new side-by-side diff screen cannot render images.
- The new side-by-side diff screen isn't able to highlight line endings.

Part of Gerrit Code Review

Version 2.15.3-4589-ge6e891f4cc | [Privacy](#) (<https://policies.google.com/privacy>)